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**Unresponsiveness of colon cancer to BRAF^{V600E} inhibition through
feedback activation of EGFR**

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Inhibition of the BRAF^{V600E} oncoprotein by the small molecule drug PLX4032 (vemurafenib) is highly effective in the treatment of melanoma¹. However, colon cancer patients harbouring the same BRAF^{V600E} oncogenic lesion have poor prognosis and show only a very limited response to this drug²⁻⁴. To investigate the cause of the limited therapeutic effect of vemurafenib in BRAF^{V600E} mutant colon tumours, we performed a RNA interference-based genetic screen to search for kinases whose knockdown synergizes with BRAF^{V600E} inhibition. We report here that blockade of the epidermal growth factor receptor (EGFR) shows strong synergy with BRAF^{V600E} inhibition. We find in multiple BRAF^{V600E} mutant colon cancers that inhibition of EGFR by the antibody drug cetuximab or the small molecule drugs gefitinib or erlotinib is strongly synergistic with BRAF^{V600E} inhibition, both *in vitro* and *in vivo*. Mechanistically, we find that BRAF^{V600E} inhibition causes a rapid feedback activation of EGFR, which supports continued proliferation in the presence of BRAF^{V600E} inhibition. Melanoma cells express low levels of EGFR and are therefore not subject to this feedback activation. Consistent with this, we find that ectopic expression of *EGFR* in melanoma cells is sufficient to cause resistance to PLX4032. Our data suggest that BRAF^{V600E} mutant colon cancers (some 8-10% of all colon cancers^{2,3 5}) for whom there are currently no targeted treatment options available might benefit from combination therapy consisting of BRAF- and EGFR inhibitors.

Activating mutations in the *BRAF* oncogene (*BRAF*^{V600E}) are seen in some 70% of primary melanomas⁶, some 10% of colorectal cancers⁷ and in some 30-70% of papillary thyroid carcinoma⁸⁻¹⁰. However, the clinical responses to the highly selective small molecule inhibitor PLX4032 (vemurafenib) of the *BRAF*^{V600E} oncoprotein differ widely, ranging from some 80% in melanoma to only 5% in *BRAF* mutant colorectal cancer²⁻⁴. To investigate the molecular mechanism responsible for the intrinsic resistance of *BRAF*^{V600E} colorectal cancers (CRC) to PLX4032, we first tested a panel of *BRAF*^{V600E} mutant melanoma and CRC cell lines for their response to PLX4032. We found that the sensitivity of melanoma and colon cancer cells in both short term (Fig. 1A) and long term (Fig. 1B) proliferation assays *in vitro* mirrors the clinical experience, with melanoma cells being more sensitive to PLX4032 than CRC cells.

RNA interference genetic screens have been used successfully to identify genes that enhance a phenotype¹¹. We therefore set out to screen a short hairpin RNA (shRNA) library representing the full complement of 518 human kinases¹² (the “kinome”) and 17 additional kinase-related genes (Table S1) for genes whose inhibition confers sensitivity to PLX4032 in *BRAF*^{V600E} mutant CRC. WiDr cells were infected with the lentiviral kinome shRNA collection and cultured in the absence or presence of PLX4032 for 10 and 18 days, respectively. After this, the relative abundance of shRNA vectors was determined by next generation sequencing of the bar code identifiers present in each shRNA vector (Fig. 1C, see methods). We arbitrarily considered only shRNA vectors that had been sequenced at least 300 times and which were depleted at least five-fold by the drug treatment. Fig. 1D shows that only very few of the 3388 shRNA vectors in the library met this stringent selection criterion, among which were three independent shRNA vectors targeting the Epidermal Growth Factor Receptor (EGFR, see Table S2 for all selected shRNAs). This suggested that suppression of EGFR synergizes with BRAF inhibition in these CRC cells. To validate this finding, we infected WiDr cells with each of these three EGFR shRNA vectors (all of which reduced EGFR levels (Fig. 1F)) and cultured these cells with or without PLX4032 for two weeks. Fig.

1E shows that inhibition of EGFR does not significantly affect proliferation of EGFR in WiDr cells, consistent with the clinical observations that *KRAS* or *BRAF* mutant CRCs do not respond to EGFR targeted monoclonal antibodies^{7,13,14}. In contrast, suppression of EGFR in combination with PLX4032 caused a marked inhibition of proliferation in WiDr cells (Fig. 1E). This suggested that *BRAF*^{V600E} mutant colon cancer cells are responsive to treatment with a combination of BRAF inhibitor plus an EGFR inhibitor.

Presently, two classes of anti EGFR drugs are clinically available; these include the monoclonal antibodies cetuximab and panitumumab and the small molecule kinase inhibitors gefitinib and erlotinib. We found that three BRAF mutant CRC cell lines (WiDr, VACO432 and KM20) all lack a significant response to monotherapy with PLX4032, cetuximab or gefitinib. However, strong synergy was seen when PLX4032 was combined with either cetuximab or gefitinib (Figs. 2A, S1A, C) or erlotinib (data not shown), consistent with the notion derived from the shRNA screen that EGFR inhibition is required to elicit a response to BRAF inhibition in CRC cells.

To address the molecular mechanism underlying the synergy between BRAF and EGFR inhibition in colon cancer, we tested lysates of drug-treated cells with phosphoprotein-specific antibodies that identify the activated state of components of the EGFR signalling pathway. To our surprise, we observed that treatment of all three *BRAF* mutant CRC cell lines with PLX4032 resulted in a strong increase in Tyr1068 phosphorylation of EGFR, which reflects activation of the receptor (Figs. 2B, S1B, D). This observation suggests that a powerful feedback activation of EGFR is elicited by BRAF inhibition. This feedback activation is ligand-dependent, as it does not take place in the absence of serum growth factors (Fig S2B). Co-treatment of these cells with a combination of PLX4032 and either cetuximab or gefitinib prevented this feedback activation of EGFR. PLX4032 treatment inhibited MEK and ERK activation downstream of BRAF but activated AKT, which acts downstream of EGFR in a pathway parallel to BRAF. We note that in all three cell lines treatment with BRAF and EGFR inhibitors caused a more complete inhibition of AKT, MEK

and ERK signalling as compared to PLX4032 monotherapy, providing a rationale for the observed synergy in growth assays (Figs. 2B, S1B, D).

To begin to address how inhibition of BRAF^{V600E} causes activation of EGFR, we treated all three BRAF mutant CRC cells with the selective MEK inhibitor AZD6244. Fig. 2C shows that this drug activated p-EGFR to the same extent as PLX4032, indicating that MEK acts downstream of BRAF to mediate the feedback regulation of EGFR. Consistent with this, we observed that expression of an active mutant of *MEK* (*MEK-DD*) in WiDr or VACO432 cells prevented the activation of EGFR by PLX4032 (Fig. 2D and data not shown). In agreement with a central role for MEK in mediating the feedback activation of EGFR, the combination of MEK and EGFR inhibitors also synergized to inhibit growth of VACO432 or WiDr cells (Fig. S3 and data not shown). So how does MEK inhibition lead to activation of EGFR through increased phosphorylation of Tyr1068? It has been shown in *Xenopus* that ERK kinase can phosphorylate Cdc25c on several residues, including Thr48, leading to activation of its phosphatase activity¹⁵. Moreover, Cdc25A can bind to and dephosphorylate EGFR¹⁶. We therefore began by investigating a potential role of CDC25C in the activation of EGFR. We suppressed CDC25C in WiDr cells by shRNA and monitored levels of p-EGFR. We found that two independent shCDC25C vectors caused an increase in p-EGFR (Fig. 2E). Moreover, treatment of WiDr cells with PLX4032 inhibited phosphorylation of CDC25C at Thr48 (Fig. 2F), which has been shown to be required for its phosphatase activity¹⁵. Together, these data are consistent with a model in which BRAF inhibition leads to inhibition of MEK and ERK kinases, which in turn leads to a reduced activation of CDC25C. Inhibition of CDC25C in turn causes an increase in p-EGFR due to decreased dephosphorylation (Fig. 2E). Our data do not exclude that the related CDC25A and B or other phosphatases are also involved in this feedback regulation of EGFR.

The EGFR is expressed primarily in epithelial cancers¹⁷. Since melanomas are derived from the neural crest, we reasoned that the favourable response of melanomas to vemurafenib might result from the paucity of EGF receptors on these tumours and hence the

absence of the feedback activation of EGFR by BRAF inhibition. We compared EGFR expression in a panel of *BRAF*^{V600E} mutant melanoma, colon cancer and thyroid cancer cells. Melanoma cell lines indeed express low levels of EGFR (Fig. 3A and data not shown). Of the ten colorectal cancer cell lines examined, eight express much higher levels of EGFR, but in two (COLO-741 and OXCO-1) EGFR levels were as low as seen in melanoma. All three thyroid cancer cell lines expressed EGFR at significant levels (Fig. 3A). When we tested the two EGFR^{low} CRC cell lines for their response to PLX4032, we found them to be almost as sensitive as the melanoma cell line A375 in both short-term assays (Fig. 3B) and in long-term assays (Fig. 3C), consistent with the notion that EGFR levels determine the response to small molecule BRAF inhibition. Thyroid cancer cell lines, which express high levels of EGFR, also responded well to the combination of gefitinib and PLX4032, but not to PXL4032 monotherapy (Figs. 3B, C, F, S5). Finally, we tested whether ectopic expression of EGFR was sufficient to confer resistance to PLX4032 in melanoma cells. We transduced EGFR-negative A375 and SK-MEL-28 melanoma cells with a retroviral EGFR expression vector and subjected these cells to treatment with PLX4032 monotherapy or combination with EGFR drug. Figs. 3D, E and S4 show that expression to EGFR conferred resistance to PLX4032, but these cells still responded well to the combination of PLX4032 with gefitinib. Together, these data indicate that EGFR levels in *BRAF* mutant CRC, melanoma and thyroid cancer cells are a key determinant of response to BRAF drug monotherapy.

Synergistic anti-cancer effects of drugs can result from an effect on cell proliferation, cell death, or both. Induction of cell death is preferred to prevent the re-growth of the tumour after the therapy has been terminated. We measured induction of programmed cell death (apoptosis) by measuring the induction of cleaved poly(ADP-ribose) polymerase (PARP), a hallmark of apoptosis¹⁸. Neither PLX4032 nor EGFR drug alone induced PARP cleavage in WiDr or in VACO cells. However, the two drugs combined did induce marked PARP cleavage, indicative of apoptosis induction (Fig. 4A, B). This suggested that BRAF and EGFR inhibition should also be synergistic when combined *in vivo*. To test this, we used

immunodeficient mice xenografted with human WiDr and VACO432 CRC tumours. Ten days after injection of tumour cells, palpable tumours were present in all animals and cohorts of mice were treated with vehicle, the EGFR targeted drugs cetuximab or erlotinib, the BRAF inhibitor PLX4720 (highly related to PLX4032, but easier to formulate for *in vivo* use), or the combination of EGFR inhibitor drug plus PLX4720 (see methods). Fig 4C and D show that treatment of mice with either PLX4720 or cetuximab monotherapy resulted in marginal growth inhibition. In contrast, the combination of cetuximab and PLX4720 elicited a potent growth inhibition of WiDr and VACO432 CRC tumours. Similarly, WiDr xenografted mice treated with the combination of erlotinib and PLX4720 derived significantly more benefit than treatment with either drug alone, mirroring the observations made *in vitro* (Fig. S6).

Our data provide a strong rationale for a clinical trial combining BRAF- and EGFR inhibitors in *BRAF*^{V600E} mutant colon cancers, which have very poor clinical outcome and for which no targeted therapeutic strategies are effective after failure of standard chemotherapeutic regimen^{2,3}. At first glance, it would seem counter-intuitive to consider treating a *BRAF* mutant colon cancer with an EGFR inhibitor, as multiple clinical studies in colon cancer have shown that EGFR inhibition is without clinical benefit when either *KRAS* or *BRAF* is mutated downstream of EGFR^{7,13,14}. The strong synergistic interaction between inhibition of BRAF and EGFR described here is explained by an unexpected and powerful feedback activation of EGFR caused by BRAF inhibition, providing a rationale for the poor clinical response of *BRAF*^{V600E} mutant colon cancers to vemurafenib monotherapy⁴. The feedback activation of EGFR also implies that *EGFR* expression levels may be a clinically-useful biomarker to predict the response to vemurafenib monotherapy in *BRAF* mutant tumours. As *BRAF*^{V600E} mutations are also common in thyroid papillary carcinomas and hairy cell leukemias, *EGFR* expression levels may also help guide the selection of EGFR combination therapy in these cancers^{8-10,19}. As some studies have shown EGFR expression in

a subset of melanomas²⁰, (acquired) EGFR expression may also explain some of the clinical resistance against vemurafenib in melanoma.

There is a plethora of targeted drug agents in late stage clinical development for the treatment of cancer. Given that resistance to monotherapy with these targeted therapies often develops rapidly, there is a trend towards combining targeted agents in clinical trials. However, the number of possibilities to combine these agents seems endless. Our results highlight the power of “synthetic lethality” genetic screens to identify which combinations of pathway inhibition are particularly effective. As such, these screens may help prioritize which combination therapies have the highest likelihood of being successful in the clinic.

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Author contributions.

R.B. and A.B. conceived the project and supervised all research. R.B., A.P., and S.H. wrote the manuscript. S.H., R.S., and R.L.B. designed the experiments. A.P., C.S., S.H., F.N., D.Z., performed the experiments.

METHODS SUMMARY

Pooled “dropout” shRNA Screen

A Kinome shRNA library targeting the full complement of 518 human kinases and 17 kinase-related genes was constructed from the TRC human genome-wide shRNA collection (TRC-Hs1.0). The Kinome library was used to generate pools of lentiviral shRNA to infect WiDr cells. Cells stably expressing shRNA were cultured in the presence or absence of PLX4032. Massive parallel sequencing was applied to determine the abundance of shRNA in cells. shRNAs prioritized for further analysis were selected by the fold of depletion by PLX4032 treatment.

Mouse xenografts / In vivo drug studies

All animal procedures were approved by the Ethical Commission of the Institute for Cancer Research and Treatment and by the Italian Ministry of Health. WiDr cells were injected subcutaneously into the right posterior flanks of 7-week-old immunodeficient NOD-SCID female mice (6 mice/group; Charles River). Tumour formation was monitored twice a week, and tumour volume based on caliper measurements was calculated by the modified ellipsoidal formula: tumour volume = $\frac{1}{2}$ length \times width². When tumours reached a volume of approximately 200-250 mm³, mice were randomly assigned to treatment with vehicle or drug(s).

FIGURE LEGENDS

Figure 1. EGFR inhibition confers sensitivity to BRAF^{V600E} inhibition in colon cancer.

a-b, CRC but not melanoma cells harbouring BRAF^{V600E} mutation are resistant to PLX4032 treatment. **a**, Short-term growth-inhibition assay of a cell line panel consisting of CRC (VACO432, SNU-C5, HT29, KM20 and WiDr) and melanoma (A375). Cells were treated with increasing concentrations of PLX4032 for 72 hours, and cell viability using CellTiter-Blue was determined by measuring the absorbance at 540 nm in a microplate reader. Error bars: \pm SE. Means were derived from 4 replicates (n=4).

b, Long-term colony formation assay of CRC cells (VACO432, KM20 and WiDr) and Melanoma cells (A375). Cells were grown in the absence or presence of PLX4032 at the indicated concentrations for 10 to 14 days. For each cell line, all dishes were fixed at the same time, stained and photographed.

c, Schematic outline of the “dropout” RNAi screen for enhancers of PLX4032 sensitivity. Human TRC kinome shRNA library polyclonal virus was produced to infect WiDr cells, which were then left untreated (control) for 10 days or treated with 1 μ M PLX4032 for 18 days. After selection, shRNA inserts from both populations were recovered by PCR and identified by deep sequencing.

d, Representation of the relative abundance of the shRNA bar code sequences from the shRNA screen experiment depicted in panel c. The y-axis is enrichment (relative abundance of PLX4032 treated/untreated) and x-axis is the intensity (average sequence reads in untreated sample) of each shRNA. Among the 22 top shRNA candidates (more than 5-fold depleted by PLX4032 treatment and more than 300 reads in untreated as indicated by the red dash lines), three independent shEGFR vectors (in red) were identified.

e-f, Three independent shRNAs targeting *EGFR* enhance response to PLX4032. **e**, The functional phenotypes of non-overlapping sh*EGFR* vectors are indicated by colony formation assay in 1 μ M PLX4032. The pLKO vector was used as a control. The cells were fixed, stained and photographed after 14 days. **f**, The level of knockdown of EGFR by each of the shRNAs was measured by examining the EGFR protein levels by western blotting.

Figure 2. Functional and biochemical interaction between BRAF and EGFR inhibition in colon cancer.

a, Synergistic response of WiDr cells to the combination of EGFR and BRAF^{V600E} inhibitors. WiDr cells were cultured in increasing concentrations of BRAF inhibitor PLX4032 alone, EGFR inhibitors cetuximab (1.25 mg/ml) or gefitinib (0.125 μ M) alone, or their combinations. The cells were fixed, stained and photographed after 18 days.

b, Resistance to BRAF^{V600E} inhibition in WiDr cells is mediated through feedback activation of EGFR. Biochemical response of WiDr cells treated with PLX4032, cetuximab or gefitinib, or their combinations were documented by western blot analysis. Cells were harvested at 6 h after drug treatment. BRAF^{V600E} inhibition results in strong up regulation of Tyr1068-phosphorylated EGFR (p-EGFR) and Ser473-phosphorylated AKT (p-AKT), which is abrogated by EGFR inhibitors. Furthermore, combination treatments result in complete inhibition of phosphorylated MEK (p-MEK) and phosphorylated ERK (p-ERK). Heat shock protein 90 (HSP90) served as a control.

c and d, MEK acts downstream of BRAF to mediate the feedback regulation of EGFR in BRAF mutant CRC cells. **c**) MEK inhibitor activates p-EGFR to the same extent as PLX4032. Activation of EGFR in WiDr, VACO432 and KM20 treated with PLX4032 or AZD6244 for 6 hours were documented by western blot analysis. **d**) Active mutant of *MEK* (*MEK-DD*) prevents the activation of EGFR by PLX4032. Western blot analysis of EGFR in WiDr cells expressing pBabe vector control or *MEK-DD* treated with PLX4032 for 1 hour.

e, Western blot analysis showing that suppression of CDC25C by two independent shRNA vectors results in elevated levels of p-EGFR in WiDr cells.

f, PLX4032 treatment leads to a reduced activation of CDC25C. Feedback regulations of CDC25C and EGFR in VACO432 cells treated with PLX4032 for 1 hour were documented by western blot analysis.

Figure 3. Correlation between EGFR levels and response to BRAF inhibition in melanoma and CRC.

a, Western blot analysis of p-EGFR and EGFR levels in a panel of BRAF^{V600E} mutant cell lines from melanoma, CRC and thyroid cancer. Heat shock protein 90 (HSP90) served as a control.

b, High levels of EGFR expression in tumour types harbouring BRAF^{V600E} mutations correlate with PLX4032 resistance. Short-term growth-inhibition assays of a cell line panel consisting of thyroid cancer (HTC-C3 and 8505C), CRC (OXCO-1, COLO741 and WiDr) and melanoma (A375). Cells was treated with increasing concentrations of PLX4032 for 72 h, and cell viability using CellTiter-Blue was determined by measuring the absorbance at 540 nm in a microplate reader. Error bars: \pm SE. Means were derived from 4 replicates (n=4).

c, Long-term colony formation assay of thyroid cancer cells 8505C, CRC cells (OXCO-1, COLO741 and WiDr) and Melanoma cells (A375). Cells were grown in the absence or presence of PLX4032 at the indicated concentrations for 10 to 14 day. For each cell line, all dishes were fixed at the same time, stained and photographed.

d, Ectopic EGFR expression confers resistance to PLX4032, but not to the combination of PLX4032 and gefitinib in A375 melanoma cells. A375 cells expressing pBabe vector control or *EGFR* were cultured in PLX4032 (5 μ M), gefitinib (2.5 μ M) or their combination. The

cells were fixed, stained and photographed after for 7 (untreated or gefitinib) or 9 (PLX4032 alone or in combination with gefitinib) days.

e, Western blot analysis of p-EGFR and total EGFR levels in cells described above. HSP90 served as a control.

f, Synergistic response of thyroid cancer HTC-C3 cells to the combination of EGFR and BRAF^{V600E} inhibitors. HTC-C3 cells were cultured in increasing concentrations of PLX4032 alone, cetuximab (1.25 mg/ml) or gefitinib (2.5 μ M) alone, or their combinations. The cells were fixed, stained and photographed after 18 days.

Figure 4. EGFR and BRAF^{V600E} inhibitors synergize to induce apoptosis of colon cancer cells and to suppress colon cancer tumour growth in a xenograft model.

a and b, Combination of EGFR and BRAF^{V600E} inhibitors leads to apoptosis in colon cancer cells. Western blot analysis of full length PARP or cleaved PARP (cl-PARP) in WiDr (a) and VACO432 (b) cells treated with PLX4032, gefitinib or erlotinib, or their combinations were documented by western blotting. Cells were harvested at 48 h after drug treatment.

c and d, EGFR inhibitor cetuximab in combination with BRAF^{V600E} inhibitor PLX4720 significantly suppresses tumour growth in two different xenograft models. WiDr (c) and VACO423 (d) cells were grown as tumour xenografts in NOD-SCID mice. After tumour establishment (200-250 mm³), mice were treated with vehicle, cetuximab (40 mg/kg), PLX4720 (50 mg/kg) or cetuximab (40 mg/kg) plus PLX4720 (50 mg/kg) for 14 days. Mean tumour volumes $\bar{x} \pm \text{s.e.m.}$ are shown (n = 6 mice per group).

METHODS

Cell Lines and Reagents

A375, SW1417, HEK293T were from the laboratory collection of R.B. SK-MEL-28 was a kind gift from Dr D. Peeper (Amsterdam, The Netherlands). BHT-101 and HTC-C3 were purchased from DMSZ (Germany). These cells were cultured in DMEM supplemented with 8% FCS and 1% penicillin/streptomycin. WiDr and HT-29 purchased from ATCC (Manassas, USA). VACO432, KM-20, SNUC5, OUMS23, LIM2045 were from the laboratory collection of Dr A. Bardelli. HTC-C3, 8508C and BHT-101 were purchased from DMSZ (Germany). These cells were cultured in RPMI supplemented with 8% FCS and 1% penicillin/streptomycin.

PLX-4032 (catalog# S1267), PLX-4720 (catalog# S1152) and gefitinib (catalog# S1025) were purchased from Selleck Chemicals (Houston, Texas, US). Erlotinib (catalog RP01332e) was purchased from Sequoia Chemicals (Pangbourne, UK). Cetuximab was obtained from the Hospital Pharmacies at The Netherlands Cancer Institutes (Amsterdam, The Netherlands) and Institute for Cancer Research and Treatment (Candiolo, Turin, Italy).

The TRC human genome-wide shRNA collection (TRC-Hs1.0) was purchased from Open Biosystems (Huntsville, USA). Further information is available at http://www.broad.mit.edu/genome_bio/trc/rnai.html.

shRNA “Dropout” Screen With a Custom TRC Kinome Library

Lentiviral plasmids (pLKO.1) encoding shRNA that target kinome candidates were listed in Supplementary table 1. The kinome library consists of 7 plasmids pools (TK1-TK7). Lentiviral supernatants were generated as described at <http://www.broadinstitute.org/rnai/public/resources/protocols>. WiDr cells were infected

separately by the 7 virus pools (Multiplicity Of Infection <1) and selected with puromycin (2ug/ml) for cells expressing integrated shRNA. Cells were then pooled and plated at 300,000 cells per 15 cm dish in absence or presence of 1 μ M PLX4032 (5 dishes for each condition) and the medium was refreshed twice per week for 18 days. Genomic DNA was isolated as described²¹. shRNA inserts were retrieved from 8ug genomic DNA by PCR amplification (PCR1 and PCR2, see below for primer information) using the following conditions: (1) 98 °C, 30s; (2) 98 °C, 10s; (3) 60 °C, 20s; (4) 72 °C, 1min; (5) to step2, 15 cycles; (6) 72 °C, 5min; (7) 4 °C. Indexes and adaptors for deep sequencing (Illumina) were incorporated into PCR primers. 2.5 ul PCR1 products were used as templates for PCR2 reaction. PCR products were purified using Qiagen PCR purification Kit according to the manufacturer manual. Sample quantification is performed by BioAnalyzer to ensure samples generated at different conditions were pooled at the same molar ratio before analyzed by Illumina genome analyzer.

shRNA stem sequence was segregated from each sequencing reads and aligned to TRC library. The matched reads were counted and the counts were transformed to abundance that was assigned to the corresponding shRNA.

Primers used are as follows:

PCR1_Untreated			replicate#1_Forward,
ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGATCCTTGTGGAAAGGACGA			
AACACCGG;	PCR1_Untreated		replicate#2_Forward,
ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGCTACTTGTGGAAAGGACGA			
AACACCGG;	PCR1_PLX	treated	replicate#1_Forward,
ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTAGCCCTTGTGGAAAGGACGA			
AACACCGG;	PCR1_PLX	treated	replicate#1_Forward,
ACACTCTTTCCCTACACGACGCTCTTCCGATCTTACAAGCTTGTGGAAAGGACGA			
AACACCGG;	PCR1_Reverse		(P7_pLKO1_r),
CAAGCAGAAGACGGCATACGAGATTTCTTTCCCCTGCACTGTACCC;			

PCR2_Forward,

AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGA

TCT: PCR2_Reverse (P5_IlluSeq), CAAGCAGAAGACGGCATAACGAGAT.

Individual shRNA vectors used were collected from the TRC library:

EGFR:

TRCN0000039633_ GCTGAGAATGTGGAATACCTA

TRCN0000121068_ GCCACAAAGCAGTGAATTTAT

TRCN0000121206_ GCCAAGCCAAATGGCATCTTT

CDC25C:

TRCN0000002433_ GAAGAGAATAATCATCGTGTT

TRCN0000002434_ GCCTTGAGTTGCATAGAGATT

Short-term Growth Inhibition Assays

Cultured cells were seeded into 96-well plates (2,000-3000 cells per well). Twenty-four hours after seeding, serial dilutions of PLX4032 were added to cells to final drug concentrations ranging from 0.04 μ M to 10 μ M. Cells were then incubated for 72 h and cell viability was measured using the CellTiter-Blue viability assay (Roche). Relative survival in the presence of PLX4032 was normalized to the untreated controls after background subtraction.

Long-term Cell Proliferation Assays

Cells were seeded into 6-well plates (2×10^4 cells/well) and cultured both in the absence and presence of drugs as indicated. For the EGFR overexpression experiments, A375 and SK-MEL-28 were seeded 5-10 $\times 10^4$ cells/well. More details are as described²². All relevant assays were performed independently at least three times.

Protein lysate preparation and Immunoblots

For the biochemical response of cells treated with drugs were documented by western blot analysis. Cells were plated in medium containing 10% FCS. After 24 hours, cells were

washed with serum-free medium and cultured for 24 hours in medium containing 0.1% serum. After the low serum incubation, cells were treated with drugs for 30 minutes and stimulated by 10% FCS. The lysates were then collected after 6 hours using sample buffer containing 5% β -mercaptoethanol, 150mM NaCl, 50mM Tris pH7.5, 2mMEDTA pH8, 25mMNaF and 1% NP-40, protease inhibitors (Complete, Roche), Phosphatase Inhibitor Cocktails II and III (Sigma). All lysates were freshly prepared and resolved by SDS gel electrophoresis and followed by western blotting. Primary antibodies used are as follows: pEGFR (Y1068) (AbCam), pERK1/2 (T202/Y204), ERK1, ERK2, HSP-90 (Santacruz), pMEK1/2 (S217/221), MEK1/2, pAKT(S473), ATK1/2, PARP, CDC25C (5H9) and p-CDC25C Thr48 (Cell Signalling Technology).

Mouse Xenografts / In Vivo Drug Studies

All drugs for in vivo studies were dissolved in DMSO, stored in aliquots at -80°C and diluted daily in aqueous vehicle prior to administration. All animals were manipulated according to protocols approved by the Ethical Commission of the Institute for Cancer Research and Treatment and by the Italian Ministry of Health. All experiments were performed in accordance with relevant local and national guidelines and regulations. WiDr cells (6×10^6 cells/mouse) were injected subcutaneously into the right posterior flanks of 7-week-old immunodeficient NOD-SCID female mice (6 mice/group; Charles River). Tumour formation was monitored twice a week, and tumour volume based on caliper measurements was calculated by the modified ellipsoidal formula: tumour volume = $\frac{1}{2}$ length \times width². When tumours reached a volume of approximately 200-250 mm³, mice were randomly assigned to treatment with vehicle (0.2% Tween 80 and 1% methylcellulose in sterile PBS by daily gavage), cetuximab (40 mg/Kg of body weight intraperitoneally twice a week), erlotinib (80 mg/Kg/day in 0.2% Tween 80 and 1% methylcellulose in sterile PBS by orogastric gavage), PLX4720 (50 mg/Kg/day in 0.2% Tween 80 and 1% methylcellulose in sterile PBS by

orogastric gavage); or to a drug combination (cetuximab + PLX720 or erlotinib + PLX4720), in which each compound was administered at the same dose and schedule as single agents.

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Fig 1

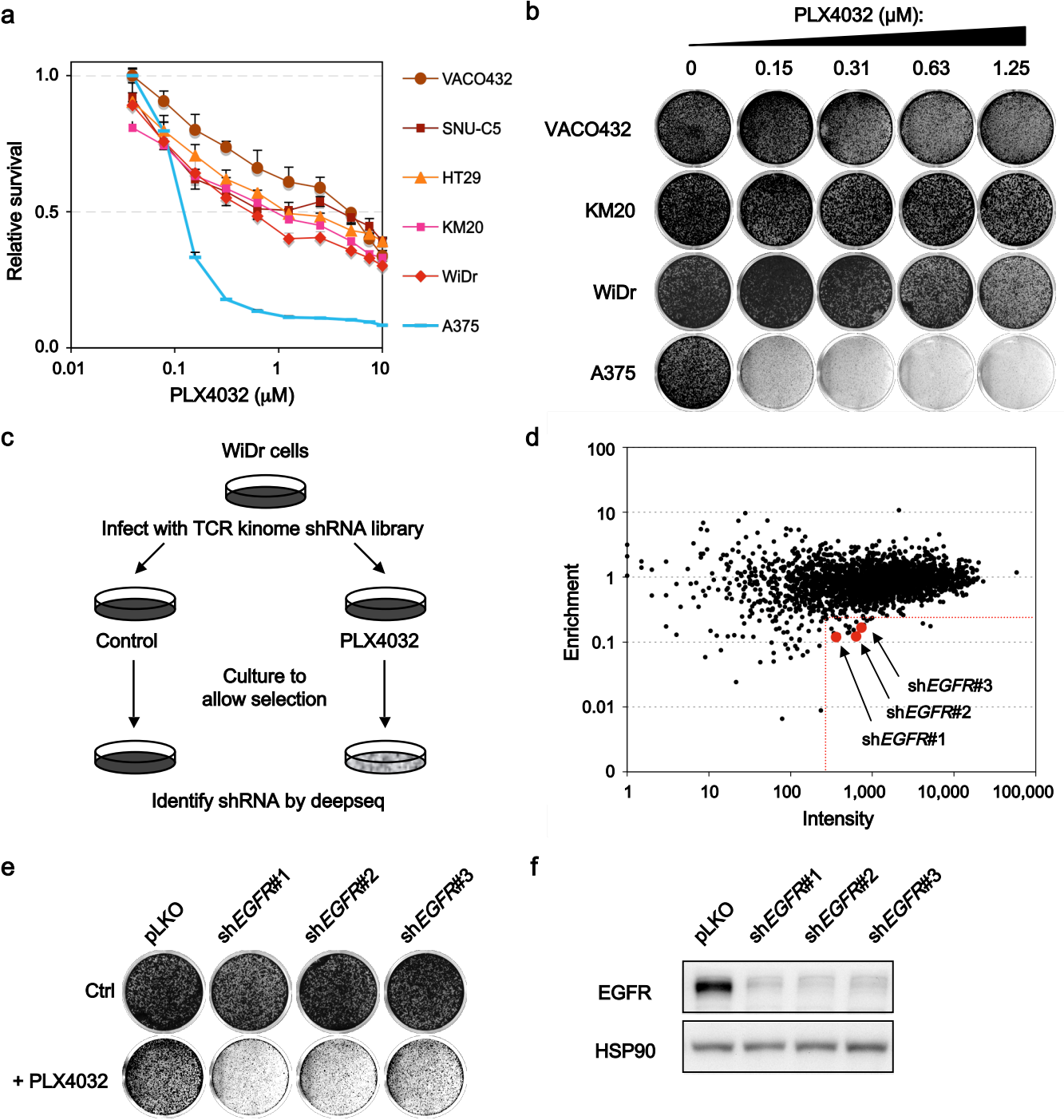


Fig 2

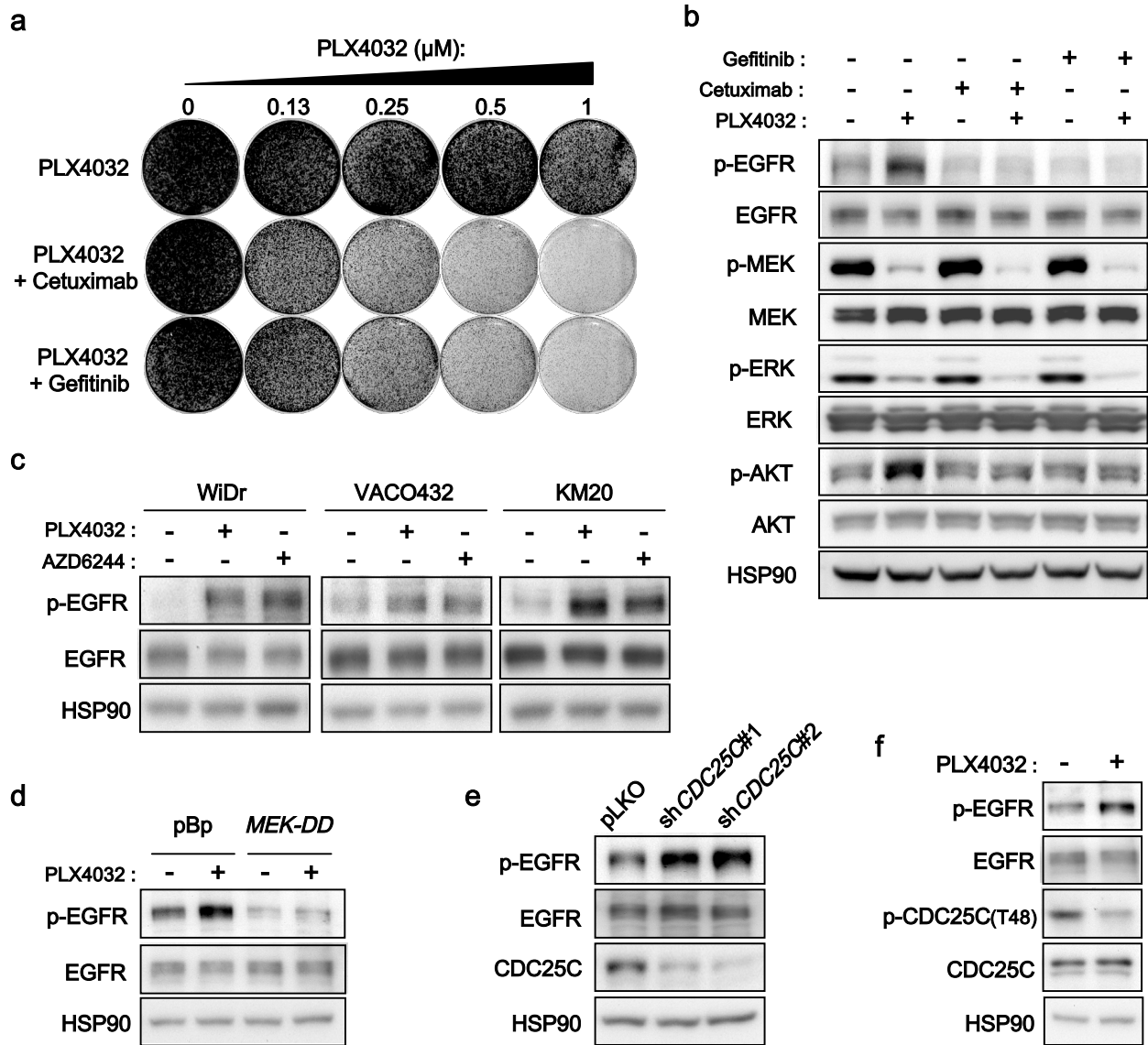


Fig 3

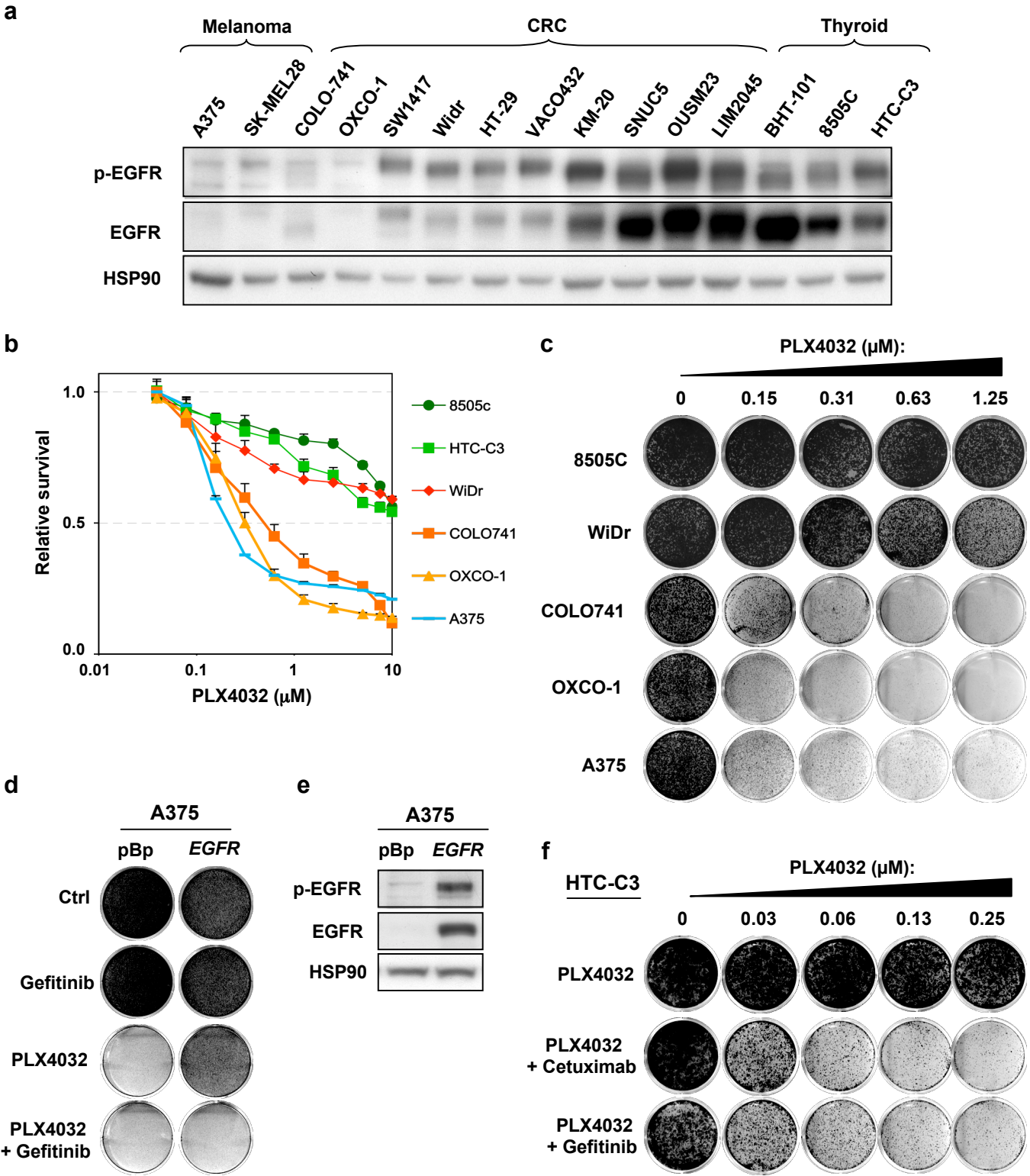
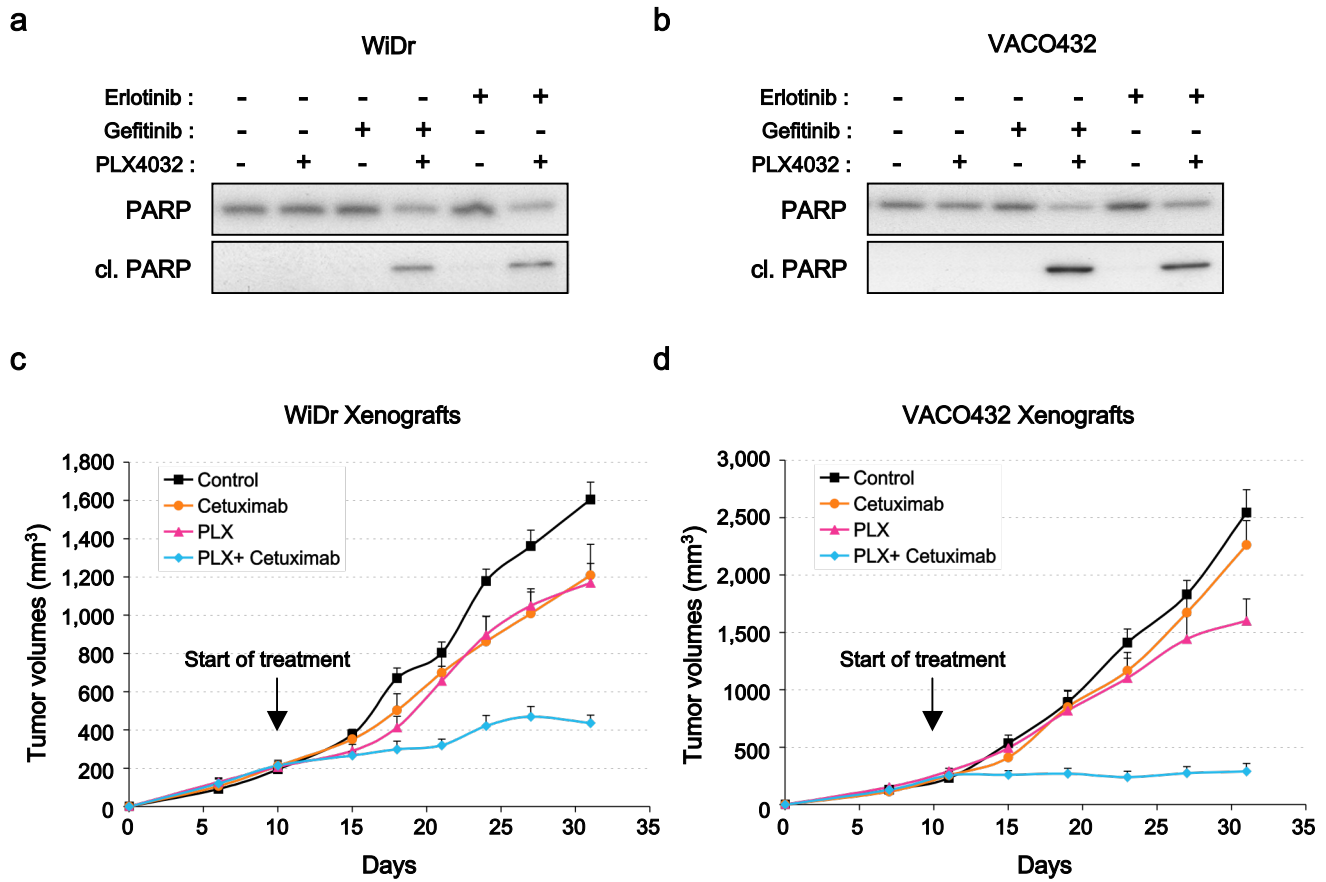


Fig 4



SUPPLEMENTAL INFORMATION

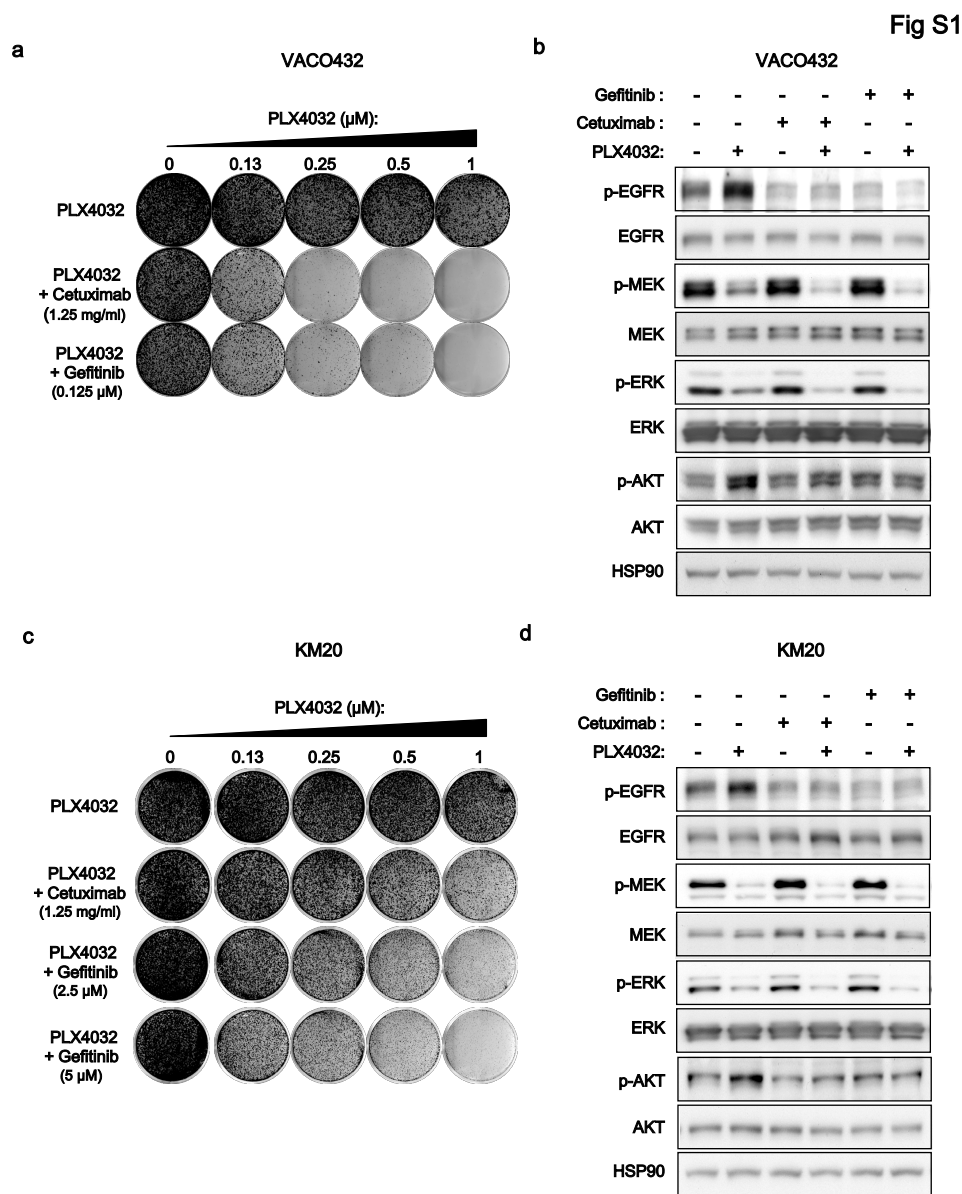


Figure S1. Functional and biochemical interaction between BRAF and EGFR inhibition in additional colon cancer cell lines.

a, Synergistic response of VACO432 cells to the combination of EGFR and BRAF^{V600E} inhibitors. VACO423 cells were cultured in increasing concentrations of BRAF inhibitor

PLX4032 alone, EGFR inhibitors cetuximab (1.25 mg/ml) or gefitinib (0.125 μ M) alone, or their combinations. The cells were fixed, stained and photographed after 18 days.

b, Resistance to BRAF^{V600E} inhibition in VACO432 cells is mediated through feedback activation of EGFR. Biochemical response of VACO432 cells treated with PLX4032, cetuximab or gefitinib, or their combinations were documented by western blot analysis. Cells were harvested at 6 h after drug treatment. BRAF^{V600E} inhibition results in strong feedback up regulation of TYR1068-phosphorylated EGFR (p-EGFR) and Ser473-phosphorylated AKT (p-AKT), which is abrogated by EGFR inhibitors. Furthermore, combination treatments result in complete inhibition of phosphorylated MEK (p-MEK) and phosphorylated ERK (p-ERK). Heat shock protein 90 (HSP90) served as a control.

c, Synergistic response of KM20 cells to the combination of EGFR and BRAF^{V600E} inhibitors. KM20 cells were cultured in increasing concentrations of PLX4032 alone, cetuximab (1.25 mg/ml) or gefitinib (2.5 or 5 μ M) alone, or their combinations. The cells were fixed, stained and photographed after for 18 days.

d, Resistance to BRAF^{V600E} inhibition in KM20 cells is mediated through feedback activation of EGFR. Biochemical response of KM20 cells treated with PLX4032, cetuximab or gefitinib, or their combinations were documented by western blot analysis. Cells were harvested at 6 h after drug treatment. BRAF^{V600E} inhibition results in strong feedback upregulation of phosphorylated EGFR (p-EGFR) and phosphorylated AKT (p-AKT), which is abrogated by EGFR inhibitors. Furthermore, combination treatments result in complete inhibition of phosphorylated MEK (p-MEK) and phosphorylated ERK (p-ERK).

Fig S2

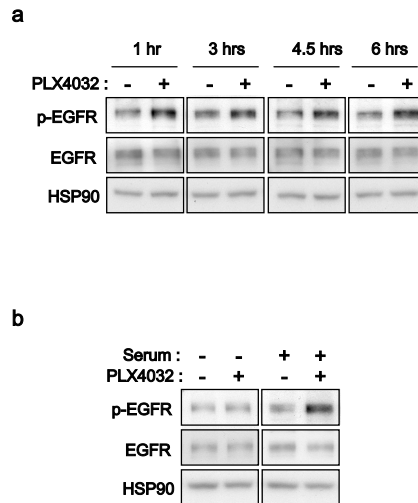


Figure S2. Feedback activation of EGFR is ligand dependent.

a, Time course of the feedback activation of EGFR in respond to BRAF^{V600E} inhibition. Western blot analysis of p-EGFR and total EGFR levels in VACO432 cells treated with PLX4032 for 1, 3, 4.5 and 6 hours. HSP90 served as a control. BRAF^{V600E} inhibition results in strong feedback up regulation of p-EGFR in all the time points.

b, Feedback activation of EGFR is ligand dependent. Western blot analysis of p-EGFR and total EGFR levels in VACO432 cells treated with PLX4032 for 3hours in the absence or presence of serum stimulation. HSP90 served as a control. BRAF^{V600E} inhibition results in strong feedback up regulation of p-EGFR only with serum stimulation.

Fig S3

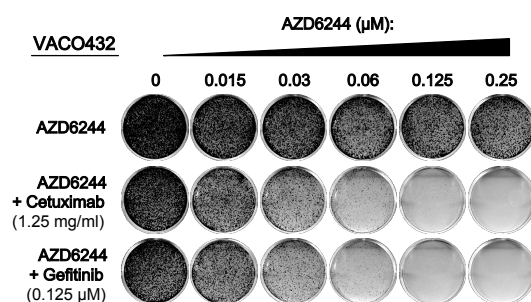


Figure S3. EGFR and MEK inhibitors also synergize to inhibit cell growth of *BRAF*^{V600E} mutant CRC cells

Synergistic response of VACO432 cells to the combination of EGFR and MEK inhibitors. VACO432 cells were cultured in increasing concentrations of AZD6244 alone, cetuximab (1.25 mg/ml) or gefitinib (0.125 μM) alone, or their combinations. The cells were fixed, stained and photographed after for 18 days.

Fig S4

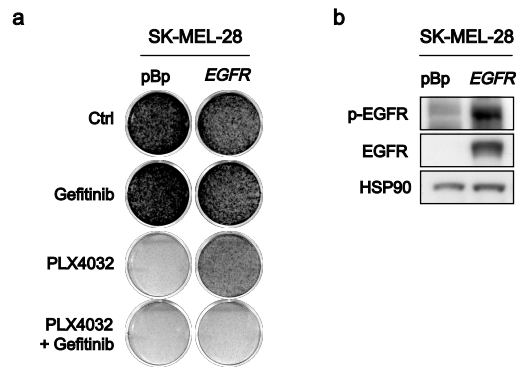


Figure S4. Ectopic expression of *EGFR* in SK-MEL-28 melanoma cells is sufficient to cause resistance to PLX4032.

a, EGFR overexpression confers resistance to PLX4032, but not to the combination of PLX4032 and gefitinib in SK-MEL-28 melanoma cells. SK-MEL-28 cells expressing pBabe vector control or *EGFR* were cultured in PLX4032 (5 μ M), gefitinib (2.5 μ M) or their combination. The cells were fixed, stained and photographed after for 7 (untreated or gefitinib) or 9 (PLX4032 alone or in combination with gefitinib) days.

b, Western blot analysis of p-EGFR and total EGFR levels in cells described above. HSP90 served as a control.

Fig S5

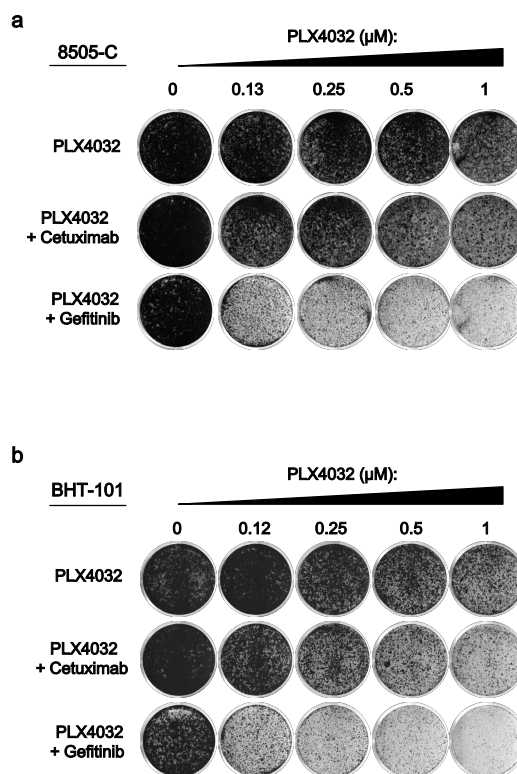


Figure S5. EGFR inhibitor also synergize with PLX4032 to overcome the resistance to BRAF^{V600E} inhibition in thyroid cancer cells that express high levels of EGFR.

a, Synergistic response of 8505 cells to the combination of EGFR and BRAF^{V600E} inhibitors. 8505 cells were cultured in increasing concentrations of PLX4032 alone, cetuximab (1.25 mg/ml) or gefitinib (2.5 μ M) alone, or their combinations. The cells were fixed, stained and photographed after for 18 days.

b, Synergistic response of BHT-101 cells to the combination of EGFR and BRAF^{V600E} inhibitors. BHT-101 cells were cultured in increasing concentrations of PLX4032 alone, cetuximab (1.25 mg/ml) or gefitinib (5 μ M) alone, or their combinations. The cells were fixed, stained and photographed after for 18 days.

Fig S6

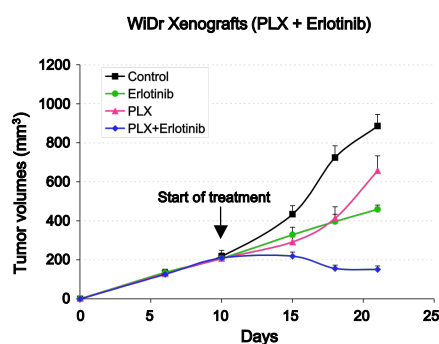


Figure S6. EGFR and BRAF^{V600E} small molecule inhibitor inhibitors synergize to suppress colon cancer tumour growth in a xenograft model.

EGFR small molecule inhibitor erlotinib in combination with BRAF^{V600E} inhibitor PLX4720 significantly suppresses tumour growth in a WiDr xenograft model. WiDr cells were grown as tumour xenografts in NOD-SCID mice. After tumour establishment (200-250 mm³), mice were treated with vehicle, erlotinib (80 mg/kg), PLX4720 (50 mg/kg) or erlotinib (80 mg/kg) plus PLX4720 (50 mg/kg) for 11 days. The experiment had to be terminated at 21 days due to infection-related death of all animals in one of the monotherapy control arms. Mean tumour volumes \pm s.e.m. are shown (n = 6 mice per group).

Table S1. Kinases screened for enhancers of PLX4032 sensitivity.

Listed are the gene symbols for the genes tested in the PLX4032 sensitivity screen and the number of shRNAs for each gene present in the library.

Table S2. Top shRNA candidates from the “dropout” RNAi screen for enhancers of PLX4032 sensitivity.

Listed are the 22 top shRNA candidates that had been sequenced at least 300 times and which were depleted at least five-fold by the drug treatment.

HGNC Syr	UniGene Id	Oligo ID	TRC Kinome Pool 12oct10
PDK3	Hs.658190	TRCN0000000259	# 1
PDK3	Hs.658190	TRCN0000000260	# 1
PDK3	Hs.658190	TRCN0000000262	# 1
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ACVRL1	Hs.591026	TRCN0000000356	# 1
ACVRL1	Hs.591026	TRCN0000000357	# 1
BTK	Hs.159494	TRCN0000000359	# 1
BTK	Hs.159494	TRCN0000000360	# 1
BTK	Hs.159494	TRCN0000000361	# 1
CDK4	Hs.95577	TRCN0000000362	# 1
CDK4	Hs.95577	TRCN0000000363	# 1
CDK4	Hs.95577	TRCN0000000364	# 1
FGFR2	Hs.533683	TRCN0000000367	# 1
FGFR2	Hs.533683	TRCN0000000368	# 1
FGFR2	Hs.533683	TRCN0000000369	# 1
FGFR2	Hs.533683	TRCN0000000370	# 1
FGFR3	Hs.1420	TRCN0000000371	# 1
FGFR3	Hs.1420	TRCN0000000374	# 1
GUCY2D	Hs.592109	TRCN0000000375	# 1
GUCY2D	Hs.592109	TRCN0000000378	# 1
INSR	Hs.465744	TRCN0000000380	# 1
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KIT	Hs.479754	TRCN0000000392	# 1
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STK11	Hs.515005	TRCN0000000409	# 1
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STK11	Hs.515005	TRCN0000000411	# 1
TEK	Hs.89640	TRCN0000000412	# 1
TEK	Hs.89640	TRCN0000000413	# 1
TEK	Hs.89640	TRCN0000000414	# 1
TEK	Hs.89640	TRCN0000000415	# 1
TEK	Hs.89640	TRCN0000000416	# 1
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FGFR1	Hs.264887	TRCN0000000419	# 1
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FGFR1	Hs.264887	TRCN0000000421	# 1
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CDC2	Hs.334562	TRCN0000000582	# 1
CDC2	Hs.334562	TRCN0000000583	# 1
CDC2	Hs.334562	TRCN0000000584	# 1
CDC2	Hs.334562	TRCN0000000585	# 1
CDC2	Hs.334562	TRCN0000000586	# 1
CDK2	Hs.19192	TRCN0000000587	# 1
CDK2	Hs.19192	TRCN0000000588	# 1
CDK2	Hs.19192	TRCN0000000589	# 1
CDK2	Hs.19192	TRCN0000000590	# 1
CDK2	Hs.19192	TRCN0000000591	# 1

CDK7	Hs.184298	TRCN0000000592	# 1
CDK7	Hs.184298	TRCN0000000593	# 1
CDK7	Hs.184298	TRCN0000000594	# 1
CDK7	Hs.184298	TRCN0000000595	# 1
CDK7	Hs.184298	TRCN0000000596	# 1
CSNK1D	Hs.631725	TRCN0000000597	# 1
CSNK1D	Hs.631725	TRCN0000000598	# 1
CSNK1D	Hs.631725	TRCN0000000599	# 1
CSNK1D	Hs.631725	TRCN0000000600	# 1
CSNK1D	Hs.631725	TRCN0000000601	# 1
CSNK1E	Hs.474833	TRCN0000000602	# 1
CSNK1E	Hs.474833	TRCN0000055427	# 1
CSNK1E	Hs.474833	TRCN0000000603	# 1
CSNK1E	Hs.474833	TRCN0000000604	# 1
CSNK1E	Hs.474833	TRCN0000000605	# 1
CSNK2A1	Hs.644056	TRCN0000000606	# 1
CSNK2A1	Hs.644056	TRCN0000000607	# 1
CSNK2A1	Hs.644056	TRCN0000000608	# 1
CSNK2A1	Hs.644056	TRCN0000000609	# 1
CSNK2A1	Hs.644056	TRCN0000000610	# 1
CSNK2A1	Hs.644056	TRCN0000000611	# 1
CSNK2A1	Hs.644056	TRCN0000000612	# 1
CSNK2A1	Hs.644056	TRCN0000000613	# 1
CSNK2A1	Hs.644056	TRCN0000000614	# 1
CSNK2A1	Hs.644056	TRCN0000000615	# 1
DDR1	Hs.631988	TRCN0000000616	# 1
DDR1	Hs.631988	TRCN0000055436	# 1
DDR1	Hs.631988	TRCN0000000617	# 1
DDR1	Hs.631988	TRCN0000000618	# 1
ERBB3	Hs.118681	TRCN0000000619	# 1
ERBB3	Hs.118681	TRCN0000000620	# 1
ERBB3	Hs.118681	TRCN0000000621	# 1
ERBB3	Hs.118681	TRCN0000000622	# 1
ERBB3	Hs.118681	TRCN0000000623	# 1
FES	Hs.7636	TRCN0000000624	# 1
FES	Hs.7636	TRCN0000000625	# 1
FES	Hs.7636	TRCN0000000626	# 1

FES	Hs.7636	TRCN0000000627	# 1
FGFR4	Hs.165950	TRCN0000000628	# 1
FGFR4	Hs.165950	TRCN0000000629	# 1
FGFR4	Hs.165950	TRCN0000000630	# 1
FLT1	Hs.654360	TRCN0000000631	# 1
FLT1	Hs.654360	TRCN0000000633	# 1
FLT1	Hs.654360	TRCN0000000634	# 1
FLT1	Hs.654360	TRCN0000000635	# 1
FLT4	Hs.646917	TRCN0000000636	# 1
FLT4	Hs.646917	TRCN0000000637	# 1
FLT4	Hs.646917	TRCN0000000638	# 1
FLT4	Hs.646917	TRCN0000000639	# 1
FLT4	Hs.646917	TRCN0000000640	# 1
STK24	Hs.508514	TRCN0000000641	# 1
STK24	Hs.508514	TRCN0000000642	# 1
STK24	Hs.508514	TRCN0000000643	# 1
STK24	Hs.508514	TRCN0000000644	# 1
STK24	Hs.508514	TRCN0000000645	# 1
DYRK3	Hs.164267	TRCN0000000646	# 1
DYRK3	Hs.164267	TRCN0000000647	# 1
DYRK3	Hs.164267	TRCN0000000648	# 1
DYRK3	Hs.164267	TRCN0000000649	# 1
DYRK2	Hs.173135	TRCN0000000650	# 1
DYRK2	Hs.173135	TRCN0000000651	# 1
DYRK2	Hs.173135	TRCN0000000652	# 1
DYRK2	Hs.173135	TRCN0000000653	# 1
DYRK2	Hs.173135	TRCN0000000654	# 1
AURKA	Hs.250822	TRCN0000000655	# 1
AURKA	Hs.250822	TRCN0000000656	# 1
AURKA	Hs.250822	TRCN0000000657	# 1
AURKA	Hs.250822	TRCN0000000658	# 1
CDC42BP	Hs.35433	TRCN0000000659	# 1
CDC42BP	Hs.35433	TRCN0000000660	# 1
CDC42BP	Hs.35433	TRCN0000000661	# 1
CDC42BP	Hs.35433	TRCN0000000662	# 1
CDC42BP	Hs.35433	TRCN0000000663	# 1
MAP4K3	Hs.655750	TRCN0000000664	# 1

MAP4K3	Hs.655750	TRCN0000000665	# 1
MAP4K3	Hs.655750	TRCN0000000666	# 1
MAP4K3	Hs.655750	TRCN0000000667	# 1
DGKZ	Hs.502461	TRCN0000000668	# 1
DGKZ	Hs.502461	TRCN0000000669	# 1
DGKZ	Hs.502461	TRCN0000000670	# 1
DGKD	Hs.471675	TRCN0000000671	# 1
DGKD	Hs.471675	TRCN0000000672	# 1
DGKD	Hs.471675	TRCN0000000673	# 1
DGKD	Hs.471675	TRCN0000000674	# 1
DGKD	Hs.471675	TRCN0000000675	# 1
CAMK1	Hs.434875	TRCN0000000676	# 1
CAMK1	Hs.434875	TRCN0000000677	# 1
CAMK1	Hs.434875	TRCN0000055430	# 1
CAMK1	Hs.434875	TRCN0000000678	# 1
CAMK1	Hs.434875	TRCN0000000679	# 1
MAPKAPK	Hs.413901	TRCN0000000680	# 1
MAPKAPK	Hs.413901	TRCN0000000681	# 1
MAPKAPK	Hs.413901	TRCN0000000682	# 1
MAPKAPK	Hs.413901	TRCN0000000683	# 1
MAPKAPK	Hs.413901	TRCN0000000684	# 1
CDK10	Hs.699177	TRCN0000000685	# 1
CDK10	Hs.699177	TRCN0000000686	# 1
CDK10	Hs.699177	TRCN0000000687	# 1
CDK10	Hs.699177	TRCN0000000688	# 1
CDK10	Hs.699177	TRCN0000000689	# 1
CASK	Hs.495984	TRCN0000000690	# 1
CASK	Hs.495984	TRCN0000000691	# 1
CASK	Hs.495984	TRCN0000000692	# 1
CASK	Hs.495984	TRCN0000000693	# 1
CASK	Hs.495984	TRCN0000000694	# 1
STK16	Hs.153003	TRCN0000000695	# 1
STK16	Hs.153003	TRCN0000000696	# 1
STK16	Hs.153003	TRCN0000000697	# 1
STK16	Hs.153003	TRCN0000000698	# 1
STK16	Hs.153003	TRCN0000000699	# 1
CDC2L5	Hs.233552	TRCN0000000700	# 1

CDC2L5	Hs.233552	TRCN0000000701	# 1
CDC2L5	Hs.233552	TRCN0000000702	# 1
CDC2L5	Hs.233552	TRCN0000000703	# 1
CDC2L5	Hs.233552	TRCN0000000704	# 1
RIPK1	Hs.519842	TRCN0000000705	# 1
RIPK1	Hs.519842	TRCN0000000706	# 1
RIPK1	Hs.519842	TRCN0000000707	# 1
RIPK1	Hs.519842	TRCN0000000708	# 1
RIPK1	Hs.519842	TRCN0000000709	# 1
DYRK4	Hs.439530	TRCN0000000710	# 1
DYRK4	Hs.439530	TRCN0000000711	# 1
DYRK4	Hs.439530	TRCN0000000712	# 1
DYRK4	Hs.439530	TRCN0000000713	# 1
PRPF4B	Hs.159014	TRCN0000000719	# 1
PRPF4B	Hs.159014	TRCN0000000720	# 1
PRPF4B	Hs.159014	TRCN0000000721	# 1
PRPF4B	Hs.159014	TRCN0000000722	# 1
PRPF4B	Hs.159014	TRCN0000000723	# 1
CDKL2	Hs.591698	TRCN0000000724	# 1
CDKL2	Hs.591698	TRCN0000000725	# 1
CDKL2	Hs.591698	TRCN0000000726	# 1
CDKL2	Hs.591698	TRCN0000000727	# 1
CDKL2	Hs.591698	TRCN0000000728	# 1
RPS6KB2	Hs.534345	TRCN0000000729	# 1
RPS6KB2	Hs.534345	TRCN0000000730	# 1
MAP3K14	Hs.404183	TRCN0000000731	# 1
MAP3K14	Hs.404183	TRCN0000000732	# 1
MAP3K14	Hs.404183	TRCN0000000733	# 1
MAP3K14	Hs.404183	TRCN0000000734	# 1
BRSK2	Hs.170819	TRCN0000000735	# 1
BRSK2	Hs.170819	TRCN0000000736	# 1
BRSK2	Hs.170819	TRCN0000000737	# 1
BRSK2	Hs.170819	TRCN0000000738	# 1
BRSK2	Hs.170819	TRCN0000000739	# 1
TNK1	Hs.203420	TRCN0000000740	# 1
TNK1	Hs.203420	TRCN0000000742	# 1
TNK1	Hs.203420	TRCN0000000743	# 1

TNK1	Hs.203420	TRCN0000000744	# 1
CLK3	Hs.584748	TRCN0000000745	# 1
CLK3	Hs.584748	TRCN0000000746	# 1
CLK3	Hs.584748	TRCN0000000747	# 1
CLK3	Hs.584748	TRCN0000000748	# 1
CLK3	Hs.584748	TRCN0000000749	# 1
CLK2	Hs.73986	TRCN0000000750	# 1
CLK2	Hs.73986	TRCN0000010543	# 1
CLK2	Hs.73986	TRCN0000000751	# 1
CLK2	Hs.73986	TRCN0000000752	# 1
CLK2	Hs.73986	TRCN0000000753	# 1
CLK1	Hs.433732	TRCN0000000754	# 1
CLK1	Hs.433732	TRCN0000000755	# 1
CLK1	Hs.433732	TRCN0000000756	# 1
CLK1	Hs.433732	TRCN0000000757	# 1
CLK1	Hs.433732	TRCN0000000758	# 1
PLK3	Hs.632415	TRCN0000000759	# 1
PLK3	Hs.632415	TRCN0000000760	# 1
PLK3	Hs.632415	TRCN0000000761	# 1
PLK3	Hs.632415	TRCN0000000762	# 1
PLK3	Hs.632415	TRCN0000000763	# 1
DGKB	Hs.567255	TRCN0000000764	# 1
DGKB	Hs.567255	TRCN0000000765	# 1
DGKB	Hs.567255	TRCN0000000766	# 1
DGKB	Hs.567255	TRCN0000000767	# 1
DGKB	Hs.567255	TRCN0000000768	# 1
PTK2B	Hs.491322	TRCN0000000769	# 1
PTK2B	Hs.491322	TRCN0000000770	# 1
PTK2B	Hs.491322	TRCN0000000771	# 1
FLT3	Hs.507590	TRCN0000000772	# 1
FLT3	Hs.507590	TRCN0000000773	# 1
FLT3	Hs.507590	TRCN0000000775	# 1
AURKB	Hs.442658	TRCN0000000776	# 1
AURKB	Hs.442658	TRCN0000000777	# 1
AURKB	Hs.442658	TRCN0000000778	# 1
AURKB	Hs.442658	TRCN0000000779	# 1
STK17B	Hs.88297	TRCN0000000780	# 1

STK17B	Hs.88297	TRCN0000000781	# 1
STK17B	Hs.88297	TRCN0000000783	# 1
ALK	Hs.654469	TRCN0000000784	# 1
ALK	Hs.654469	TRCN0000000785	# 1
ALK	Hs.654469	TRCN0000000786	# 1
ALK	Hs.654469	TRCN0000000787	# 1
ALK	Hs.654469	TRCN0000000788	# 1
ABL1	Hs.431048	TRCN0000000789	# 1
ABL1	Hs.431048	TRCN0000000790	# 1
BMPR1A	Hs.524477	TRCN0000000794	# 1
BMPR1A	Hs.524477	TRCN0000000795	# 1
BMPR1A	Hs.524477	TRCN0000000796	# 1
BMPR1A	Hs.524477	TRCN0000000797	# 1
BMPR1A	Hs.524477	TRCN0000000798	# 1
BUB1	Hs.469649	TRCN0000000800	# 1
BUB1	Hs.469649	TRCN0000000801	# 1
BUB1	Hs.469649	TRCN0000000802	# 1
CSK	Hs.77793	TRCN0000000803	# 1
CSK	Hs.77793	TRCN0000000804	# 1
CSK	Hs.77793	TRCN0000000805	# 1
CSK	Hs.77793	TRCN0000000806	# 1
CSK	Hs.77793	TRCN0000000807	# 1
CSNK1G3	Hs.129206	TRCN0000000808	# 1
CSNK1G3	Hs.129206	TRCN0000000809	# 1
CSNK1G3	Hs.129206	TRCN0000000810	# 1
CSNK1G3	Hs.129206	TRCN0000000811	# 1
DMPK	Hs.631596	TRCN0000000812	# 1
DMPK	Hs.631596	TRCN0000000813	# 1
DMPK	Hs.631596	TRCN0000000814	# 1
DMPK	Hs.631596	TRCN0000000815	# 1
DMPK	Hs.631596	TRCN0000000816	# 1
EPHB1	Hs.116092	TRCN0000000817	# 1
EPHB1	Hs.116092	TRCN0000000818	# 1
EPHB1	Hs.116092	TRCN0000000819	# 1
EPHB1	Hs.116092	TRCN0000000820	# 1
EPHB1	Hs.116092	TRCN0000000821	# 1
GSK3B	Hs.445733	TRCN0000000822	# 1

GSK3B	Hs.445733	TRCN0000000823	# 1
GSK3B	Hs.445733	TRCN0000000824	# 1
GSK3B	Hs.445733	TRCN0000010552	# 1
LIMK1	Hs.647035	TRCN0000000826	# 1
LIMK1	Hs.647035	TRCN0000010554	# 1
MAPK13	Hs.178695	TRCN0000055428	# 1
MAPK13	Hs.178695	TRCN0000000827	# 1
MAPK13	Hs.178695	TRCN0000000828	# 1
MAPK13	Hs.178695	TRCN0000000829	# 1
TGFBR2	Hs.82028	TRCN0000000830	# 1
TGFBR2	Hs.82028	TRCN0000000831	# 1
TGFBR2	Hs.82028	TRCN0000000832	# 1
TGFBR2	Hs.82028	TRCN0000000833	# 1
TGFBR2	Hs.82028	TRCN0000000834	# 1
ULK1	Hs.47061	TRCN0000000835	# 1
ULK1	Hs.47061	TRCN0000000836	# 1
ULK1	Hs.47061	TRCN0000000837	# 1
ULK1	Hs.47061	TRCN0000000838	# 1
ULK1	Hs.47061	TRCN0000000839	# 1
GRK5	Hs.524625	TRCN0000000840	# 1
GRK5	Hs.524625	TRCN0000000841	# 1
GRK5	Hs.524625	TRCN0000000842	# 1
GRK5	Hs.524625	TRCN0000000843	# 1
PRKCE	Hs.580351	TRCN0000000846	# 1
PRKCE	Hs.580351	TRCN0000000847	# 1
PRKCE	Hs.580351	TRCN0000000848	# 1
MAP3K4	Hs.390428	TRCN0000000849	# 1
MAP3K4	Hs.390428	TRCN0000000850	# 1
MAP3K4	Hs.390428	TRCN0000000851	# 1
MAP3K4	Hs.390428	TRCN0000000852	# 1
CDC42BP1	Hs.654634	TRCN0000000853	# 1
CDC42BP1	Hs.654634	TRCN0000000854	# 1
CDC42BP1	Hs.654634	TRCN0000000855	# 1
CDC42BP1	Hs.654634	TRCN0000000856	# 1
PRKAA1	Hs.43322	TRCN0000000857	# 1
PRKAA1	Hs.43322	TRCN0000000858	# 1
PRKAA1	Hs.43322	TRCN0000000859	# 1

PRKAA1	Hs.43322	TRCN0000000860	# 1
PRKAA1	Hs.43322	TRCN0000000861	# 1
MERTK	Hs.306178	TRCN0000000863	# 1
MERTK	Hs.306178	TRCN0000000864	# 1
MERTK	Hs.306178	TRCN0000000865	# 1
MERTK	Hs.306178	TRCN0000000866	# 1
PLK2	Hs.398157	TRCN0000000867	# 1
PLK2	Hs.398157	TRCN0000000868	# 1
PLK2	Hs.398157	TRCN0000000869	# 1
PLK2	Hs.398157	TRCN0000000870	# 1
TRIO	Hs.130031	TRCN0000000871	# 1
TRIO	Hs.130031	TRCN0000000872	# 1
TRIO	Hs.130031	TRCN0000000873	# 1
TRIO	Hs.130031	TRCN0000000874	# 1
IRAK3	Hs.369265	TRCN0000000875	# 1
IRAK3	Hs.369265	TRCN0000000876	# 1
IRAK3	Hs.369265	TRCN0000000877	# 1
IRAK3	Hs.369265	TRCN0000000878	# 1
IRAK3	Hs.369265	TRCN0000000879	# 1
LATS2	Hs.78960	TRCN0000000880	# 1
LATS2	Hs.78960	TRCN0000000881	# 1
LATS2	Hs.78960	TRCN0000000882	# 1
LATS2	Hs.78960	TRCN0000000883	# 1
LATS2	Hs.78960	TRCN0000000884	# 1
PIK3R4	Hs.149032	TRCN0000000885	# 1
PIK3R4	Hs.149032	TRCN0000000886	# 1
PIK3R4	Hs.149032	TRCN0000000887	# 1
PIK3R4	Hs.149032	TRCN0000000888	# 1
ULK2	Hs.168762	TRCN0000000889	# 1
ULK2	Hs.168762	TRCN0000000890	# 1
ULK2	Hs.168762	TRCN0000000891	# 1
ULK2	Hs.168762	TRCN0000000892	# 1
ULK2	Hs.168762	TRCN0000000893	# 1
SLK	Hs.591922	TRCN0000000894	# 1
SLK	Hs.591922	TRCN0000000895	# 1
SLK	Hs.591922	TRCN0000000896	# 1
SLK	Hs.591922	TRCN0000000897	# 2

SLK	Hs.591922	TRCN0000000898	# 2
NUAK1	Hs.719171	TRCN0000000899	# 2
NUAK1	Hs.719171	TRCN0000000900	# 2
NUAK1	Hs.719171	TRCN0000000901	# 2
NUAK1	Hs.719171	TRCN0000000902	# 2
NUAK1	Hs.719171	TRCN0000000903	# 2
VRK3	Hs.443330	TRCN0000000909	# 2
VRK3	Hs.443330	TRCN0000000910	# 2
VRK3	Hs.443330	TRCN0000000912	# 2
BMP2K	Hs.146551	TRCN0000000913	# 2
BMP2K	Hs.146551	TRCN0000000914	# 2
BMP2K	Hs.146551	TRCN0000000915	# 2
BMP2K	Hs.146551	TRCN0000000916	# 2
BMP2K	Hs.146551	TRCN0000000917	# 2
WNK1	Hs.709894	TRCN0000000918	# 2
WNK1	Hs.709894	TRCN0000000919	# 2
WNK1	Hs.709894	TRCN0000000920	# 2
WNK1	Hs.709894	TRCN0000000921	# 2
RNASEL	Hs.518545	TRCN0000000923	# 2
RNASEL	Hs.518545	TRCN0000000924	# 2
RNASEL	Hs.518545	TRCN0000000925	# 2
RNASEL	Hs.518545	TRCN0000000926	# 2
NEK8	Hs.448468	TRCN0000000928	# 2
NEK8	Hs.448468	TRCN0000000929	# 2
NEK8	Hs.448468	TRCN0000000930	# 2
NEK8	Hs.448468	TRCN0000000931	# 2
MYLK2	Hs.86092	TRCN0000000932	# 2
MYLK2	Hs.86092	TRCN0000000933	# 2
MYLK	Hs.477375	TRCN0000000935	# 2
MYLK	Hs.477375	TRCN0000000936	# 2
MYLK	Hs.477375	TRCN0000000937	# 2
SRM	Hs.76244	TRCN0000000938	# 2
SRM	Hs.76244	TRCN0000000939	# 2
SRM	Hs.76244	TRCN0000000940	# 2
SRM	Hs.76244	TRCN0000000941	# 2
SRM	Hs.76244	TRCN0000000942	# 2
MAPK9	Hs.484371	TRCN0000000943	# 2

MAPK9	Hs.484371	TRCN0000000944	# 2
MAPK9	Hs.484371	TRCN0000000945	# 2
MAPK9	Hs.484371	TRCN0000000946	# 2
MAPK9	Hs.484371	TRCN0000000947	# 2
NEK2	Hs.153704	TRCN0000000948	# 2
NEK2	Hs.153704	TRCN0000000949	# 2
NEK2	Hs.153704	TRCN0000000950	# 2
NEK2	Hs.153704	TRCN0000000951	# 2
NEK2	Hs.153704	TRCN0000000952	# 2
ROS1	Hs.1041	TRCN0000000953	# 2
ROS1	Hs.1041	TRCN0000000954	# 2
ROS1	Hs.1041	TRCN0000000955	# 2
ROS1	Hs.1041	TRCN0000000956	# 2
ROS1	Hs.1041	TRCN0000000957	# 2
ILK	Hs.706355	TRCN0000000968	# 2
ILK	Hs.706355	TRCN0000000969	# 2
ILK	Hs.706355	TRCN0000000970	# 2
ILK	Hs.706355	TRCN0000000971	# 2
ILK	Hs.706355	TRCN0000000972	# 2
STK17A	Hs.709489	TRCN0000000973	# 2
STK17A	Hs.709489	TRCN0000000974	# 2
STK17A	Hs.709489	TRCN0000000975	# 2
STK17A	Hs.709489	TRCN0000000976	# 2
ROCK2	Hs.591600	TRCN0000000977	# 2
ROCK2	Hs.591600	TRCN0000000978	# 2
ROCK2	Hs.591600	TRCN0000000979	# 2
ROCK2	Hs.591600	TRCN0000000980	# 2
ROCK2	Hs.591600	TRCN0000000981	# 2
DAPK1	Hs.380277	TRCN0000000982	# 2
DAPK1	Hs.380277	TRCN0000000983	# 2
DAPK1	Hs.380277	TRCN0000000984	# 2
DAPK1	Hs.380277	TRCN0000000985	# 2
GRK4	Hs.32959	TRCN0000000986	# 2
GRK4	Hs.32959	TRCN0000000987	# 2
GRK4	Hs.32959	TRCN0000000988	# 2
GRK4	Hs.32959	TRCN0000000989	# 2
GRK4	Hs.32959	TRCN0000000990	# 2

MAP3K5	Hs.186486	TRCN0000000991	# 2
MAP3K5	Hs.186486	TRCN0000000992	# 2
MAP3K5	Hs.186486	TRCN0000000993	# 2
MAP3K5	Hs.186486	TRCN0000000994	# 2
MAP3K5	Hs.186486	TRCN0000000995	# 2
PRKG1	Hs.654556	TRCN0000000996	# 2
PRKG1	Hs.654556	TRCN0000000997	# 2
PRKG1	Hs.654556	TRCN0000000998	# 2
PRKG1	Hs.654556	TRCN0000055432	# 2
MAP3K12	Hs.713539	TRCN0000000999	# 2
MAP3K12	Hs.713539	TRCN0000001000	# 2
MAP3K12	Hs.713539	TRCN0000001001	# 2
MAP3K12	Hs.713539	TRCN0000001002	# 2
MAP3K12	Hs.713539	TRCN0000001003	# 2
PASK	Hs.397891	TRCN0000001004	# 2
PASK	Hs.397891	TRCN0000001005	# 2
PASK	Hs.397891	TRCN0000001006	# 2
PASK	Hs.397891	TRCN0000001007	# 2
PASK	Hs.397891	TRCN0000001008	# 2
MAPK9	Hs.484371	TRCN0000001013	# 2
MAPK9	Hs.484371	TRCN0000001014	# 2
MAPK9	Hs.484371	TRCN0000001015	# 2
MAPK9	Hs.484371	TRCN0000001016	# 2
MAPK10	Hs.125503	TRCN0000001017	# 2
MAPK10	Hs.125503	TRCN0000001018	# 2
MAPK10	Hs.125503	TRCN0000001019	# 2
MAPK10	Hs.125503	TRCN0000001020	# 2
MAPK10	Hs.125503	TRCN0000001021	# 2
AXL	Hs.590970	TRCN0000001037	# 2
AXL	Hs.590970	TRCN0000001038	# 2
AXL	Hs.590970	TRCN0000001039	# 2
AXL	Hs.590970	TRCN0000001040	# 2
AXL	Hs.590970	TRCN0000001041	# 2
MAPK8	Hs.138211	TRCN0000001055	# 2
MAPK8	Hs.138211	TRCN0000001056	# 2
MAPK8	Hs.138211	TRCN0000001057	# 2
RAF1	Hs.159130	TRCN0000001064	# 2

RAF1	Hs.159130	TRCN0000001065	# 2
RAF1	Hs.159130	TRCN0000001066	# 2
RAF1	Hs.159130	TRCN0000001067	# 2
RAF1	Hs.159130	TRCN0000001068	# 2
MAP2K7	Hs.531754	TRCN0000001079	# 2
MAP2K7	Hs.531754	TRCN0000001080	# 2
PRKCZ	Hs.496255	TRCN0000001219	# 2
PRKCZ	Hs.496255	TRCN0000001220	# 2
PRKCZ	Hs.496255	TRCN0000001221	# 2
PRKCZ	Hs.496255	TRCN0000001222	# 2
SRPK1	Hs.443861	TRCN0000001230	# 2
SRPK1	Hs.443861	TRCN0000001232	# 2
NPR2	Hs.78518	TRCN0000001312	# 2
NPR2	Hs.78518	TRCN0000001313	# 2
NPR2	Hs.78518	TRCN0000001314	# 2
NPR2	Hs.78518	TRCN0000001315	# 2
PKN3	Hs.300485	TRCN0000001321	# 2
PKN3	Hs.300485	TRCN0000001322	# 2
PKN3	Hs.300485	TRCN0000001323	# 2
PKN3	Hs.300485	TRCN0000001324	# 2
CDC42BP	Hs.35433	TRCN0000001330	# 2
CDC42BP	Hs.35433	TRCN0000001332	# 2
CDC42BP	Hs.35433	TRCN0000001333	# 2
CDC42BP	Hs.35433	TRCN0000001334	# 2
EPHA8	Hs.283613	TRCN0000001345	# 2
EPHA8	Hs.283613	TRCN0000001346	# 2
EPHA8	Hs.283613	TRCN0000001347	# 2
EPHA8	Hs.283613	TRCN0000001348	# 2
EPHA8	Hs.283613	TRCN0000001349	# 2
CLK4	Hs.406557	TRCN0000001350	# 2
CLK4	Hs.406557	TRCN0000001352	# 2
CLK4	Hs.406557	TRCN0000010605	# 2
MAPK7	Hs.150136	TRCN0000001354	# 2
MAPK7	Hs.150136	TRCN0000010617	# 2
MAPK7	Hs.150136	TRCN0000001355	# 2
DGKH	Hs.659437	TRCN0000001357	# 2
DGKH	Hs.659437	TRCN0000001358	# 2

DGKH	Hs.659437	TRCN0000001359	# 2
DGKH	Hs.659437	TRCN0000001361	# 2
SIK1	Hs.282113	TRCN0000001362	# 2
SIK1	Hs.282113	TRCN0000001363	# 2
SIK1	Hs.282113	TRCN0000001364	# 2
SIK1	Hs.282113	TRCN0000001365	# 2
SIK1	Hs.282113	TRCN0000001366	# 2
GRK6	Hs.235116	TRCN0000001367	# 2
GRK6	Hs.235116	TRCN0000001368	# 2
GRK6	Hs.235116	TRCN0000001369	# 2
PRKACA	Hs.631630	TRCN0000001371	# 2
PRKACA	Hs.631630	TRCN0000001372	# 2
PRKACA	Hs.631630	TRCN0000001373	# 2
MAPK4	Hs.433728	TRCN0000001376	# 2
MAPK4	Hs.433728	TRCN0000001378	# 2
EIF2AK1	Hs.719136	TRCN0000001381	# 2
EIF2AK1	Hs.719136	TRCN0000001382	# 2
EIF2AK1	Hs.719136	TRCN0000001383	# 2
RPS6KA1	Hs.149957	TRCN0000001384	# 2
RPS6KA1	Hs.149957	TRCN0000001385	# 2
RPS6KA1	Hs.149957	TRCN0000001387	# 2
RPS6KA1	Hs.149957	TRCN0000001388	# 2
MAP2K4	Hs.514681	TRCN0000001389	# 2
MAP2K4	Hs.514681	TRCN0000001390	# 2
MAP2K4	Hs.514681	TRCN0000001391	# 2
MAP2K4	Hs.514681	TRCN0000001392	# 2
MAP2K4	Hs.514681	TRCN0000001393	# 2
RPS6KA3	Hs.445387	TRCN0000001394	# 2
RPS6KA3	Hs.445387	TRCN0000001395	# 2
RPS6KA3	Hs.445387	TRCN0000001396	# 2
RPS6KA3	Hs.445387	TRCN0000001397	# 2
RPS6KA3	Hs.445387	TRCN0000001398	# 2
EIF2AK3	Hs.591589	TRCN0000001399	# 2
EIF2AK3	Hs.591589	TRCN0000001400	# 2
EIF2AK3	Hs.591589	TRCN0000001401	# 2
EIF2AK3	Hs.591589	TRCN0000001402	# 2
EIF2AK3	Hs.591589	TRCN0000001403	# 2

ERBB4	Hs.390729	TRCN0000001407	# 2
ERBB4	Hs.390729	TRCN0000001408	# 2
ERBB4	Hs.390729	TRCN0000001409	# 2
ERBB4	Hs.390729	TRCN0000001410	# 2
PRKD3	Hs.660757	TRCN0000001412	# 2
PRKD3	Hs.660757	TRCN0000001414	# 2
PRKD3	Hs.660757	TRCN0000001415	# 2
DDR2	Hs.593833	TRCN0000001418	# 2
DDR2	Hs.593833	TRCN0000001419	# 2
DDR2	Hs.593833	TRCN0000001420	# 2
DDR2	Hs.593833	TRCN0000001421	# 2
PDGFRA	Hs.74615	TRCN0000001422	# 2
PDGFRA	Hs.74615	TRCN0000001424	# 2
KALRN	Hs.8004	TRCN0000001427	# 2
KALRN	Hs.8004	TRCN0000001428	# 2
KALRN	Hs.8004	TRCN0000001429	# 2
KALRN	Hs.8004	TRCN0000001430	# 2
KALRN	Hs.8004	TRCN0000001431	# 2
TESK2	Hs.591499	TRCN0000001433	# 2
TESK2	Hs.591499	TRCN0000001434	# 2
TESK2	Hs.591499	TRCN0000001435	# 2
NRBP1	Hs.515876	TRCN0000001437	# 2
NRBP1	Hs.515876	TRCN0000001439	# 2
NRBP1	Hs.515876	TRCN0000001440	# 2
NRBP1	Hs.515876	TRCN0000001441	# 2
TAOK2	Hs.291623	TRCN0000001442	# 2
TAOK2	Hs.291623	TRCN0000001444	# 2
TAOK2	Hs.291623	TRCN0000001445	# 2
CAMK1G	Hs.199068	TRCN0000001452	# 2
CAMK1G	Hs.199068	TRCN0000001453	# 2
CAMK1G	Hs.199068	TRCN0000001454	# 2
CAMK1G	Hs.199068	TRCN0000001456	# 2
MAP2K5	Hs.114198	TRCN0000001466	# 2
MAP2K5	Hs.114198	TRCN0000001467	# 2
MAP2K5	Hs.114198	TRCN0000001468	# 2
NEK3	Hs.409989	TRCN0000001471	# 2
NEK3	Hs.409989	TRCN0000001472	# 2

NEK3	Hs.409989	TRCN0000001474	# 2
PDK1	Hs.470633	TRCN0000001476	# 2
PDK1	Hs.470633	TRCN0000001477	# 2
GRK1	Hs.103501	TRCN0000001486	# 2
GRK1	Hs.103501	TRCN0000001487	# 2
ABL1	Hs.431048	TRCN0000001499	# 2
ABL1	Hs.431048	TRCN0000001500	# 2
ABL1	Hs.431048	TRCN0000001502	# 2
PRKG2	Hs.570833	TRCN0000001507	# 2
PRKG2	Hs.570833	TRCN0000001509	# 2
PRKG2	Hs.570833	TRCN0000001510	# 2
PRKG2	Hs.570833	TRCN0000001511	# 2
SGK2	Hs.300863	TRCN0000001518	# 2
SGK2	Hs.300863	TRCN0000001520	# 2
TAOK3	Hs.644420	TRCN0000001527	# 2
TAOK3	Hs.644420	TRCN0000001528	# 2
TAOK3	Hs.644420	TRCN0000001529	# 2
WNK3	Hs.92423	TRCN0000001531	# 2
WNK3	Hs.92423	TRCN0000001532	# 2
WNK3	Hs.92423	TRCN0000001534	# 2
TRIB1	Hs.444947	TRCN0000001535	# 2
TRIB1	Hs.444947	TRCN0000001536	# 2
TRIB1	Hs.444947	TRCN0000001537	# 2
TRIB1	Hs.444947	TRCN0000001538	# 2
SGK196	Hs.491646	TRCN0000001540	# 2
SGK196	Hs.491646	TRCN0000001542	# 2
SGK196	Hs.491646	TRCN0000001543	# 2
CSNK1D	Hs.631725	TRCN0000001551	# 2
CSNK1D	Hs.631725	TRCN0000001552	# 2
MAP3K7	Hs.719192	TRCN0000001554	# 2
MAP3K7	Hs.719192	TRCN0000001555	# 2
MAP3K7	Hs.719192	TRCN0000001556	# 2
MAP3K7	Hs.719192	TRCN0000001557	# 2
MAP3K7	Hs.719192	TRCN0000001558	# 2
MARK3	Hs.35828	TRCN0000001564	# 2
MARK3	Hs.35828	TRCN0000001565	# 2
MAPK6	Hs.411847	TRCN0000001568	# 2

MAPK6	Hs.411847	TRCN0000001569	# 2
MAPK6	Hs.411847	TRCN0000001570	# 2
RYK	Hs.654562	TRCN0000001573	# 2
RYK	Hs.654562	TRCN0000001574	# 2
RYK	Hs.654562	TRCN0000001575	# 2
RYK	Hs.654562	TRCN0000001576	# 2
TXK	Hs.479669	TRCN0000001577	# 2
TXK	Hs.479669	TRCN0000055429	# 2
TXK	Hs.479669	TRCN0000001579	# 2
TXK	Hs.479669	TRCN0000001580	# 2
MARK2	Hs.567261	TRCN0000001581	# 2
MARK2	Hs.567261	TRCN0000001582	# 2
MARK2	Hs.567261	TRCN0000001583	# 2
MARK2	Hs.567261	TRCN0000001584	# 2
MARK2	Hs.567261	TRCN0000001585	# 2
OXSRI	Hs.475970	TRCN0000001587	# 2
OXSRI	Hs.475970	TRCN0000001588	# 2
OXSRI	Hs.475970	TRCN0000001589	# 2
CSF1R	Hs.586219	TRCN0000001590	# 2
CSF1R	Hs.586219	TRCN0000001591	# 2
CSF1R	Hs.586219	TRCN0000001592	# 2
FGR	Hs.1422	TRCN0000001593	# 2
FGR	Hs.1422	TRCN0000001594	# 2
FGR	Hs.1422	TRCN0000001595	# 2
FGR	Hs.1422	TRCN0000001596	# 2
FGR	Hs.1422	TRCN0000001597	# 2
LCK	Hs.470627	TRCN0000001598	# 2
LCK	Hs.470627	TRCN0000001599	# 2
LCK	Hs.470627	TRCN0000055434	# 2
LCK	Hs.470627	TRCN0000001600	# 2
LCK	Hs.470627	TRCN0000001601	# 2
TIE1	Hs.78824	TRCN0000001602	# 2
TIE1	Hs.78824	TRCN0000001603	# 2
TIE1	Hs.78824	TRCN0000001604	# 2
TIE1	Hs.78824	TRCN0000001605	# 2
TIE1	Hs.78824	TRCN0000001606	# 2
YES1	Hs.194148	TRCN0000001607	# 2

YES1	Hs.194148	TRCN0000001608	# 2
YES1	Hs.194148	TRCN0000001609	# 2
YES1	Hs.194148	TRCN0000001610	# 2
YES1	Hs.194148	TRCN0000001611	# 2
AKT3	Hs.498292	TRCN0000001612	# 2
AKT3	Hs.498292	TRCN0000001613	# 2
AKT3	Hs.498292	TRCN0000001614	# 2
AKT3	Hs.498292	TRCN0000001615	# 2
AKT3	Hs.498292	TRCN0000001616	# 2
PTK2	Hs.395482	TRCN0000001617	# 2
PTK2	Hs.395482	TRCN0000001618	# 2
PTK2	Hs.395482	TRCN0000001619	# 2
PTK2	Hs.395482	TRCN0000001620	# 2
PTK2	Hs.395482	TRCN0000001621	# 2
STK4	Hs.472838	TRCN0000001622	# 2
STK4	Hs.472838	TRCN0000001623	# 2
STK4	Hs.472838	TRCN0000001624	# 2
STK4	Hs.472838	TRCN0000001625	# 2
STK4	Hs.472838	TRCN0000001626	# 2
PIM2	Hs.719294	TRCN0000001627	# 2
PIM2	Hs.719294	TRCN0000001628	# 2
PIM2	Hs.719294	TRCN0000001629	# 2
PIM2	Hs.719294	TRCN0000001630	# 2
PIM2	Hs.719294	TRCN0000001631	# 2
MAP4K1	Hs.95424	TRCN0000001632	# 2
MAP4K1	Hs.95424	TRCN0000001633	# 2
MAP4K1	Hs.95424	TRCN0000001634	# 2
MAP4K1	Hs.95424	TRCN0000001635	# 2
MAP4K1	Hs.95424	TRCN0000001636	# 2
MELK	Hs.184339	TRCN0000001642	# 2
MELK	Hs.184339	TRCN0000001643	# 2
MELK	Hs.184339	TRCN0000001644	# 2
MELK	Hs.184339	TRCN0000001645	# 2
MELK	Hs.184339	TRCN0000001646	# 2
KDR	Hs.479756	TRCN0000001685	# 2
KDR	Hs.479756	TRCN0000001686	# 2
KDR	Hs.479756	TRCN0000001687	# 2

KDR	Hs.479756	TRCN0000001688	# 2
KDR	Hs.479756	TRCN0000001689	# 2
PRKACA	Hs.631630	TRCN0000001690	# 2
PRKACA	Hs.631630	TRCN0000001691	# 2
PRKACA	Hs.631630	TRCN0000001692	# 2
PRKACA	Hs.631630	TRCN0000001693	# 2
PRKACA	Hs.631630	TRCN0000001694	# 2
NEK4	Hs.631921	TRCN0000001695	# 2
NEK4	Hs.631921	TRCN0000001696	# 2
NEK4	Hs.631921	TRCN0000001697	# 2
NEK4	Hs.631921	TRCN0000001698	# 2
NEK4	Hs.631921	TRCN0000001699	# 2
WEE1	Hs.249441	TRCN0000001700	# 2
WEE1	Hs.249441	TRCN0000001701	# 2
WEE1	Hs.249441	TRCN0000001702	# 2
WEE1	Hs.249441	TRCN0000001703	# 2
WEE1	Hs.249441	TRCN0000001704	# 2
MOS	Hs.533432	TRCN0000001705	# 2
MOS	Hs.533432	TRCN0000001707	# 2
PSKH1	Hs.513683	TRCN0000001708	# 2
PSKH1	Hs.513683	TRCN0000001709	# 2
PSKH1	Hs.513683	TRCN0000001710	# 2
PSKH1	Hs.513683	TRCN0000001711	# 2
PSKH1	Hs.513683	TRCN0000001712	# 2
RAGE	Hs.104119	TRCN0000001713	# 2
RAGE	Hs.104119	TRCN0000001714	# 2
RAGE	Hs.104119	TRCN0000001715	# 2
RAGE	Hs.104119	TRCN0000001716	# 2
RAGE	Hs.104119	TRCN0000001717	# 2
DAPK2	Hs.237886	TRCN0000001718	# 2
DAPK2	Hs.237886	TRCN0000001719	# 2
DAPK2	Hs.237886	TRCN0000001720	# 2
DAPK2	Hs.237886	TRCN0000001721	# 2
DAPK2	Hs.237886	TRCN0000001722	# 2
NEK6	Hs.197071	TRCN0000001723	# 2
NEK6	Hs.197071	TRCN0000001724	# 2
NEK6	Hs.197071	TRCN0000001725	# 2

NEK6	Hs.197071	TRCN0000001726	# 2
NEK6	Hs.197071	TRCN0000001727	# 2
MAST2	Hs.319481	TRCN0000001733	# 2
MAST2	Hs.319481	TRCN0000001734	# 2
MAST2	Hs.319481	TRCN0000001735	# 2
MAST2	Hs.319481	TRCN0000001736	# 2
STYK1	Hs.24979	TRCN0000001742	# 2
STYK1	Hs.24979	TRCN0000001743	# 2
STYK1	Hs.24979	TRCN0000001744	# 2
STYK1	Hs.24979	TRCN0000001745	# 2
STYK1	Hs.24979	TRCN0000001746	# 2
PAK6	Hs.513645	TRCN0000001747	# 2
PAK6	Hs.513645	TRCN0000001748	# 2
PAK6	Hs.513645	TRCN0000001749	# 2
PAK6	Hs.513645	TRCN0000001750	# 2
PAK6	Hs.513645	TRCN0000001751	# 2
CAMK1D	Hs.659517	TRCN0000001752	# 2
CAMK1D	Hs.659517	TRCN0000001753	# 2
CAMK1D	Hs.659517	TRCN0000001754	# 2
CAMK1D	Hs.659517	TRCN0000001756	# 2
EPHA6	Hs.653244	TRCN0000001768	# 2
EPHA6	Hs.653244	TRCN0000001769	# 2
EPHA6	Hs.653244	TRCN0000001770	# 2
EPHA6	Hs.653244	TRCN0000001771	# 2
EPHB4	Hs.437008	TRCN0000001772	# 2
EPHB4	Hs.437008	TRCN0000001773	# 2
EPHB4	Hs.437008	TRCN0000001774	# 2
EPHB4	Hs.437008	TRCN0000001775	# 2
LATS1	Hs.716697	TRCN0000001776	# 2
LATS1	Hs.716697	TRCN0000001777	# 2
LATS1	Hs.716697	TRCN0000001778	# 2
LATS1	Hs.716697	TRCN0000001779	# 2
LATS1	Hs.716697	TRCN0000001780	# 2
PRKX	Hs.390788	TRCN0000001781	# 2
PRKX	Hs.390788	TRCN0000001782	# 2
PRKX	Hs.390788	TRCN0000001783	# 2
PRKX	Hs.390788	TRCN0000001784	# 2

MAK	Hs.446125	TRCN0000001785	# 2
MAK	Hs.446125	TRCN0000001786	# 2
MAK	Hs.446125	TRCN0000001789	# 2
PRKCQ	Hs.498570	TRCN0000001790	# 2
PRKCQ	Hs.498570	TRCN0000001791	# 2
PRKCQ	Hs.498570	TRCN0000001792	# 2
PRKCQ	Hs.498570	TRCN0000001793	# 2
PRKCQ	Hs.498570	TRCN0000001794	# 2
CRKRS	Hs.416108	TRCN0000001795	# 2
CRKRS	Hs.416108	TRCN0000001796	# 2
CRKRS	Hs.416108	TRCN0000001797	# 2
CRKRS	Hs.416108	TRCN0000001798	# 2
CRKRS	Hs.416108	TRCN0000001799	# 2
PXK	Hs.190544	TRCN0000001800	# 2
PXK	Hs.190544	TRCN0000001801	# 2
PXK	Hs.190544	TRCN0000001802	# 2
PXK	Hs.190544	TRCN0000001803	# 2
PXK	Hs.190544	TRCN0000001804	# 2
PBK	Hs.104741	TRCN0000001805	# 2
PBK	Hs.104741	TRCN0000001806	# 2
PBK	Hs.104741	TRCN0000001807	# 2
PBK	Hs.104741	TRCN0000001808	# 2
ACVR1B	Hs.438918	TRCN0000001810	# 2
ACVR1B	Hs.438918	TRCN0000001811	# 2
ACVR1B	Hs.438918	TRCN0000001812	# 2
ACVR1B	Hs.438918	TRCN0000001813	# 2
ACVR1B	Hs.438918	TRCN0000001814	# 2
STK40	Hs.471768	TRCN0000001815	# 2
STK40	Hs.471768	TRCN0000001816	# 2
STK40	Hs.471768	TRCN0000001817	# 2
STK40	Hs.471768	TRCN0000001818	# 2
STK40	Hs.471768	TRCN0000001819	# 2
CDK10	Hs.699177	TRCN0000001820	# 2
CDK10	Hs.699177	TRCN0000001821	# 2
CDK10	Hs.699177	TRCN0000001822	# 2
CDK10	Hs.699177	TRCN0000001823	# 2
ACVR1C	Hs.562901	TRCN0000001824	# 2

ACVR1C	Hs.562901	TRCN0000001825	# 2
ACVR1C	Hs.562901	TRCN0000001826	# 2
ACVR1C	Hs.562901	TRCN0000001827	# 2
ACVR1C	Hs.562901	TRCN0000001828	# 2
MAP4K4	Hs.719073	TRCN0000001829	# 2
MAP4K4	Hs.719073	TRCN0000001830	# 3
MAP4K4	Hs.719073	TRCN0000001831	# 3
MAP4K4	Hs.719073	TRCN0000001832	# 3
CSNK1E	Hs.474833	TRCN0000001834	# 3
CSNK1E	Hs.474833	TRCN0000001835	# 3
CSNK1E	Hs.474833	TRCN0000001836	# 3
CSNK1E	Hs.474833	TRCN0000001837	# 3
CSNK1E	Hs.474833	TRCN0000001838	# 3
MYLK3	Hs.130465	TRCN0000001842	# 3
MYLK3	Hs.130465	TRCN0000001843	# 3
MYLK3	Hs.130465	TRCN0000001844	# 3
MYLK3	Hs.130465	TRCN0000001845	# 3
MYLK3	Hs.130465	TRCN0000001846	# 3
TAOK2	Hs.291623	TRCN0000001932	# 3
TAOK2	Hs.291623	TRCN0000001933	# 3
TAOK2	Hs.291623	TRCN0000001934	# 3
TAOK2	Hs.291623	TRCN0000001935	# 3
TAOK2	Hs.291623	TRCN0000001936	# 3
MAPK10	Hs.125503	TRCN0000001937	# 3
MAPK10	Hs.125503	TRCN0000001938	# 3
MAPK10	Hs.125503	TRCN0000001939	# 3
MAPK10	Hs.125503	TRCN0000001940	# 3
MAPK10	Hs.125503	TRCN0000001941	# 3
AAK1	Hs.468878	TRCN0000001942	# 3
AAK1	Hs.468878	TRCN0000001943	# 3
AAK1	Hs.468878	TRCN0000001944	# 3
AAK1	Hs.468878	TRCN0000001945	# 3
AAK1	Hs.468878	TRCN0000001946	# 3
PRKD2	Hs.466987	TRCN0000001947	# 3
PRKD2	Hs.466987	TRCN0000001948	# 3
PRKD2	Hs.466987	TRCN00000010670	# 3
PRKD2	Hs.466987	TRCN0000001949	# 3

PRKD2	Hs.466987	TRCN0000001950	# 3
SNRK	Hs.476052	TRCN0000001951	# 3
SNRK	Hs.476052	TRCN0000001952	# 3
SNRK	Hs.476052	TRCN0000001953	# 3
SNRK	Hs.476052	TRCN0000001954	# 3
SNRK	Hs.476052	TRCN0000001955	# 3
AMHR2	Hs.659889	TRCN0000001957	# 3
AMHR2	Hs.659889	TRCN0000001958	# 3
AMHR2	Hs.659889	TRCN0000001959	# 3
AMHR2	Hs.659889	TRCN0000001960	# 3
NEK11	Hs.657336	TRCN0000001961	# 3
NEK11	Hs.657336	TRCN0000001963	# 3
NEK7	Hs.24119	TRCN0000001966	# 3
NEK7	Hs.24119	TRCN0000001967	# 3
NEK7	Hs.24119	TRCN0000001968	# 3
NEK7	Hs.24119	TRCN0000001969	# 3
NEK7	Hs.24119	TRCN0000010671	# 3
DCLK2	Hs.591683	TRCN0000001970	# 3
DCLK2	Hs.591683	TRCN0000001971	# 3
DCLK2	Hs.591683	TRCN0000001972	# 3
DCLK2	Hs.591683	TRCN0000001973	# 3
DCLK2	Hs.591683	TRCN0000001974	# 3
CAMKK1	Hs.8417	TRCN0000001980	# 3
CAMKK1	Hs.8417	TRCN0000001981	# 3
CAMKK1	Hs.8417	TRCN0000001982	# 3
CAMKK1	Hs.8417	TRCN0000001983	# 3
CAMKK1	Hs.8417	TRCN0000001984	# 3
CSNK2A1	Hs.644056	TRCN0000001985	# 3
CSNK2A1	Hs.644056	TRCN0000001986	# 3
CSNK2A1	Hs.644056	TRCN0000001987	# 3
MAP3K10	Hs.466743	TRCN0000001988	# 3
MAP3K10	Hs.466743	TRCN0000001989	# 3
MAP3K10	Hs.466743	TRCN0000001990	# 3
MAP3K10	Hs.466743	TRCN0000001991	# 3
NTRK1	Hs.406293	TRCN0000001992	# 3
NTRK1	Hs.406293	TRCN0000001993	# 3
NTRK1	Hs.406293	TRCN0000001994	# 3

NTRK1	Hs.406293	TRCN0000001995	# 3
NTRK1	Hs.406293	TRCN0000001996	# 3
PDGFRB	Hs.509067	TRCN0000001997	# 3
PDGFRB	Hs.509067	TRCN0000001998	# 3
PDGFRB	Hs.509067	TRCN0000001999	# 3
PDGFRB	Hs.509067	TRCN0000002000	# 3
PDGFRB	Hs.509067	TRCN0000002001	# 3
PRKACB	Hs.487325	TRCN0000002002	# 3
PRKACB	Hs.487325	TRCN0000002003	# 3
PRKACB	Hs.487325	TRCN0000002004	# 3
PRKACB	Hs.487325	TRCN0000002006	# 3
CDKL5	Hs.659851	TRCN0000002011	# 3
CDKL5	Hs.659851	TRCN0000002012	# 3
CDKL5	Hs.659851	TRCN0000002013	# 3
CDKL5	Hs.659851	TRCN0000002014	# 3
CDKL5	Hs.659851	TRCN0000002015	# 3
EPHB6	Hs.380089	TRCN0000002016	# 3
EPHB6	Hs.380089	TRCN0000002017	# 3
EPHB6	Hs.380089	TRCN0000002018	# 3
GUCY2C	Hs.524278	TRCN0000002019	# 3
GUCY2C	Hs.524278	TRCN0000002020	# 3
GUCY2C	Hs.524278	TRCN0000002021	# 3
GUCY2C	Hs.524278	TRCN0000002022	# 3
GUCY2C	Hs.524278	TRCN0000002023	# 3
ROR1	Hs.654491	TRCN0000002024	# 3
ROR1	Hs.654491	TRCN0000002025	# 3
ROR1	Hs.654491	TRCN0000002026	# 3
ROR1	Hs.654491	TRCN0000002027	# 3
ROR1	Hs.654491	TRCN0000002028	# 3
ABL2	Hs.159472	TRCN0000002029	# 3
ABL2	Hs.159472	TRCN0000002030	# 3
ABL2	Hs.159472	TRCN0000002031	# 3
ABL2	Hs.159472	TRCN0000002032	# 3
ABL2	Hs.159472	TRCN0000002033	# 3
ADRBK2	Hs.657494	TRCN0000002034	# 3
ADRBK2	Hs.657494	TRCN0000002035	# 3
ADRBK2	Hs.657494	TRCN0000002036	# 3

ADRBK2	Hs.657494	TRCN0000002037	# 3
TNK2	Hs.518513	TRCN0000002038	# 3
TNK2	Hs.518513	TRCN0000002039	# 3
TNK2	Hs.518513	TRCN0000002040	# 3
TNK2	Hs.518513	TRCN0000002041	# 3
TNK2	Hs.518513	TRCN0000002042	# 3
MAP3K2	Hs.145605	TRCN0000002043	# 3
MAP3K2	Hs.145605	TRCN0000002044	# 3
MAP3K2	Hs.145605	TRCN0000002045	# 3
MAP3K2	Hs.145605	TRCN0000002047	# 3
STK38L	Hs.184523	TRCN0000002053	# 3
STK38L	Hs.184523	TRCN0000002054	# 3
STK38L	Hs.184523	TRCN0000002055	# 3
STK38L	Hs.184523	TRCN0000002056	# 3
STK38L	Hs.184523	TRCN0000002057	# 3
IRAK4	Hs.138499	TRCN0000002064	# 3
NLK	Hs.208759	TRCN0000002067	# 3
NLK	Hs.208759	TRCN0000002068	# 3
NLK	Hs.208759	TRCN0000002069	# 3
NLK	Hs.208759	TRCN0000002070	# 3
NLK	Hs.208759	TRCN0000002071	# 3
STK33	Hs.501833	TRCN0000002077	# 3
STK33	Hs.501833	TRCN0000002079	# 3
STK33	Hs.501833	TRCN0000002080	# 3
STK33	Hs.501833	TRCN0000002081	# 3
STK35	Hs.100057	TRCN0000002091	# 3
STK35	Hs.100057	TRCN0000002092	# 3
STK35	Hs.100057	TRCN0000002093	# 3
STK35	Hs.100057	TRCN0000002094	# 3
STK35	Hs.100057	TRCN0000002095	# 3
PFTK2	Hs.348711	TRCN0000002096	# 3
PFTK2	Hs.348711	TRCN0000002097	# 3
PFTK2	Hs.348711	TRCN0000002098	# 3
PFTK2	Hs.348711	TRCN0000002099	# 3
PFTK2	Hs.348711	TRCN0000002100	# 3
SGK2	Hs.300863	TRCN0000002110	# 3
SGK2	Hs.300863	TRCN0000002111	# 3

SGK2	Hs.300863	TRCN0000002112	# 3
SGK2	Hs.300863	TRCN0000002113	# 3
PAK2	Hs.518530	TRCN0000002114	# 3
PAK2	Hs.518530	TRCN0000002115	# 3
PAK2	Hs.518530	TRCN0000002116	# 3
PAK2	Hs.518530	TRCN0000002117	# 3
PAK2	Hs.518530	TRCN0000002118	# 3
PIK3C2B	Hs.497487	TRCN0000002119	# 3
PIK3C2B	Hs.497487	TRCN0000002120	# 3
PIK3C2B	Hs.497487	TRCN0000002121	# 3
PIK3C2B	Hs.497487	TRCN0000002122	# 3
PIK3C2B	Hs.497487	TRCN0000002123	# 3
PRKD1	Hs.508999	TRCN0000002124	# 3
PRKD1	Hs.508999	TRCN0000002125	# 3
PRKD1	Hs.508999	TRCN0000002126	# 3
PRKD1	Hs.508999	TRCN0000002127	# 3
PRKD1	Hs.508999	TRCN0000002128	# 3
VRK1	Hs.422662	TRCN0000002129	# 3
VRK1	Hs.422662	TRCN0000002130	# 3
VRK1	Hs.422662	TRCN0000002131	# 3
VRK1	Hs.422662	TRCN0000002132	# 3
VRK1	Hs.422662	TRCN0000002133	# 3
DYRK1B	Hs.130988	TRCN0000002139	# 3
DYRK1B	Hs.130988	TRCN0000002140	# 3
DYRK1B	Hs.130988	TRCN0000002141	# 3
DYRK1B	Hs.130988	TRCN0000002142	# 3
DYRK1B	Hs.130988	TRCN0000002143	# 3
DCLK1	Hs.507755	TRCN0000002144	# 3
DCLK1	Hs.507755	TRCN0000002145	# 3
DCLK1	Hs.507755	TRCN0000002146	# 3
DCLK1	Hs.507755	TRCN0000002147	# 3
DCLK1	Hs.507755	TRCN0000002148	# 3
GAK	Hs.369607	TRCN0000002154	# 3
GAK	Hs.369607	TRCN0000002155	# 3
GAK	Hs.369607	TRCN0000002156	# 3
GAK	Hs.369607	TRCN0000002157	# 3
GAK	Hs.369607	TRCN0000002158	# 3

ROCK1	Hs.306307	TRCN0000002159	# 3
ROCK1	Hs.306307	TRCN0000002160	# 3
ROCK1	Hs.306307	TRCN0000002161	# 3
ROCK1	Hs.306307	TRCN0000002162	# 3
ROCK1	Hs.306307	TRCN0000002163	# 3
MUSK	Hs.521653	TRCN0000002164	# 3
MUSK	Hs.521653	TRCN0000002165	# 3
MUSK	Hs.521653	TRCN0000002166	# 3
MUSK	Hs.521653	TRCN0000002167	# 3
PRKAA2	Hs.437039	TRCN0000002168	# 3
PRKAA2	Hs.437039	TRCN0000002169	# 3
PRKAA2	Hs.437039	TRCN0000002170	# 3
PRKAA2	Hs.437039	TRCN0000002171	# 3
PRKAA2	Hs.437039	TRCN0000002172	# 3
STK3	Hs.492333	TRCN0000002173	# 3
STK3	Hs.492333	TRCN0000002174	# 3
STK3	Hs.492333	TRCN0000002175	# 3
STK3	Hs.492333	TRCN0000002176	# 3
STK3	Hs.492333	TRCN0000002177	# 3
TYRO3	Hs.381282	TRCN0000002178	# 3
TYRO3	Hs.381282	TRCN0000002179	# 3
TYRO3	Hs.381282	TRCN0000002180	# 3
TYRO3	Hs.381282	TRCN0000002181	# 3
MAP4K5	Hs.130491	TRCN0000002187	# 3
MAP4K5	Hs.130491	TRCN0000002188	# 3
MAP4K5	Hs.130491	TRCN0000002189	# 3
MAP4K5	Hs.130491	TRCN0000002190	# 3
MAP4K5	Hs.130491	TRCN0000002191	# 3
TNNI3K	Hs.480085	TRCN0000002192	# 3
TNNI3K	Hs.480085	TRCN0000002193	# 3
TNNI3K	Hs.480085	TRCN0000002194	# 3
TNNI3K	Hs.480085	TRCN0000002195	# 3
TNNI3K	Hs.480085	TRCN0000002196	# 3
MYO3A	Hs.662630	TRCN0000002197	# 3
MYO3A	Hs.662630	TRCN0000002198	# 3
MYO3A	Hs.662630	TRCN0000002199	# 3
MYO3A	Hs.662630	TRCN0000002200	# 3

MYO3A	Hs.662630	TRCN0000002201	# 3
ULK4	Hs.656192	TRCN0000002202	# 3
ULK4	Hs.656192	TRCN0000002203	# 3
ULK4	Hs.656192	TRCN0000002204	# 3
ULK4	Hs.656192	TRCN0000002205	# 3
ULK4	Hs.656192	TRCN0000002206	# 3
TSSK3	Hs.512763	TRCN0000002207	# 3
TSSK3	Hs.512763	TRCN0000002208	# 3
TSSK3	Hs.512763	TRCN0000002209	# 3
TSSK3	Hs.512763	TRCN0000002210	# 3
TSSK3	Hs.512763	TRCN0000002211	# 3
MAPK15	Hs.493169	TRCN0000002214	# 3
CCRK	Hs.522274	TRCN0000002215	# 3
CCRK	Hs.522274	TRCN0000002216	# 3
CCRK	Hs.522274	TRCN0000002217	# 3
CCRK	Hs.522274	TRCN0000002218	# 3
MATK	Hs.631845	TRCN0000002220	# 3
MATK	Hs.631845	TRCN0000002221	# 3
MATK	Hs.631845	TRCN0000002222	# 3
MATK	Hs.631845	TRCN0000002223	# 3
PAK1	Hs.435714	TRCN0000002224	# 3
PAK1	Hs.435714	TRCN0000002225	# 3
PAK1	Hs.435714	TRCN0000002226	# 3
PAK1	Hs.435714	TRCN0000002227	# 3
PIK3C2A	Hs.175343	TRCN0000002228	# 3
PIK3C2A	Hs.175343	TRCN0000002229	# 3
PIK3C2A	Hs.175343	TRCN0000002230	# 3
PIK3C2A	Hs.175343	TRCN0000002231	# 3
PIK3C2A	Hs.175343	TRCN0000002232	# 3
GCK	Hs.1270	TRCN0000002233	# 3
GCK	Hs.1270	TRCN0000002234	# 3
GCK	Hs.1270	TRCN0000002235	# 3
GCK	Hs.1270	TRCN0000002236	# 3
GCK	Hs.1270	TRCN0000002237	# 3
NTRK2	Hs.494312	TRCN0000002242	# 3
NTRK2	Hs.494312	TRCN0000002243	# 3
NTRK2	Hs.494312	TRCN0000002244	# 3

NTRK2	Hs.494312	TRCN0000002245	# 3
NTRK2	Hs.494312	TRCN0000002246	# 3
TESK1	Hs.708096	TRCN0000002247	# 3
TESK1	Hs.708096	TRCN0000002248	# 3
TESK1	Hs.708096	TRCN0000002249	# 3
TESK1	Hs.708096	TRCN0000002250	# 3
TESK1	Hs.708096	TRCN0000002251	# 3
WNK2	Hs.654856	TRCN0000002252	# 3
WNK2	Hs.654856	TRCN0000002253	# 3
WNK2	Hs.654856	TRCN0000002254	# 3
WNK2	Hs.654856	TRCN0000002255	# 3
WNK2	Hs.654856	TRCN0000002256	# 3
RIPK3	Hs.268551	TRCN0000002257	# 3
RIPK3	Hs.268551	TRCN0000002258	# 3
RIPK3	Hs.268551	TRCN0000002259	# 3
RIPK3	Hs.268551	TRCN0000002260	# 3
RIPK3	Hs.268551	TRCN0000002261	# 3
RPS6KA6	Hs.368153	TRCN0000002262	# 3
RPS6KA6	Hs.368153	TRCN0000002263	# 3
RPS6KA6	Hs.368153	TRCN0000002264	# 3
RPS6KA6	Hs.368153	TRCN0000002265	# 3
RPS6KA6	Hs.368153	TRCN0000002266	# 3
HUNK	Hs.109437	TRCN0000002267	# 3
HUNK	Hs.109437	TRCN0000002268	# 3
HUNK	Hs.109437	TRCN0000002269	# 3
HUNK	Hs.109437	TRCN0000002270	# 3
STK32B	Hs.133062	TRCN0000002272	# 3
STK32B	Hs.133062	TRCN0000002273	# 3
STK32B	Hs.133062	TRCN0000002274	# 3
STK32B	Hs.133062	TRCN0000002275	# 3
STK32B	Hs.133062	TRCN0000002276	# 3
MASTL	Hs.276905	TRCN0000002277	# 3
MASTL	Hs.276905	TRCN0000002278	# 3
MASTL	Hs.276905	TRCN0000002279	# 3
MASTL	Hs.276905	TRCN0000002280	# 3
MASTL	Hs.276905	TRCN0000002281	# 3
MAPKAPK	Hs.643566	TRCN0000002282	# 3

MAPKAPK Hs.643566	TRCN0000002283	# 3
MAPKAPK Hs.643566	TRCN0000002284	# 3
MAPKAPK Hs.643566	TRCN0000002285	# 3
MAPKAPK Hs.643566	TRCN0000002286	# 3
NEK10 Hs.506115	TRCN0000002287	# 3
NEK10 Hs.506115	TRCN0000002288	# 3
NEK10 Hs.506115	TRCN0000002289	# 3
NEK10 Hs.506115	TRCN0000002290	# 3
NEK10 Hs.506115	TRCN0000002291	# 3
PDIK1L Hs.468801	TRCN0000002292	# 3
PDIK1L Hs.468801	TRCN0000002293	# 3
PDIK1L Hs.468801	TRCN0000002294	# 3
PDIK1L Hs.468801	TRCN0000002295	# 3
PDIK1L Hs.468801	TRCN0000002296	# 3
CAMKK2 Hs.297343	TRCN0000002297	# 3
CAMKK2 Hs.297343	TRCN0000002298	# 3
CAMKK2 Hs.297343	TRCN0000002299	# 3
CAMKK2 Hs.297343	TRCN0000002300	# 3
CAMKK2 Hs.297343	TRCN0000002301	# 3
ANKK1 Hs.448473	TRCN0000002302	# 3
ANKK1 Hs.448473	TRCN0000002303	# 3
ANKK1 Hs.448473	TRCN0000002304	# 3
MAP3K3 Hs.29282	TRCN0000002305	# 3
MAP3K3 Hs.29282	TRCN0000002306	# 3
MAP3K3 Hs.29282	TRCN0000002307	# 3
MAP3K3 Hs.29282	TRCN0000002308	# 3
NTRK3 Hs.410969	TRCN0000002309	# 3
NTRK3 Hs.410969	TRCN0000002310	# 3
NTRK3 Hs.410969	TRCN0000002311	# 3
NTRK3 Hs.410969	TRCN0000002312	# 3
NTRK3 Hs.410969	TRCN0000002313	# 3
PDK2 Hs.256667	TRCN0000002314	# 3
PDK2 Hs.256667	TRCN0000002315	# 3
PDK2 Hs.256667	TRCN0000002316	# 3
PDK2 Hs.256667	TRCN0000002317	# 3
PDK2 Hs.256667	TRCN0000002318	# 3
PRKCG Hs.631564	TRCN0000002324	# 3

PRKCG	Hs.631564	TRCN0000002325	# 3
PRKCG	Hs.631564	TRCN0000002326	# 3
PRKCG	Hs.631564	TRCN0000002327	# 3
MAP2K1	Hs.145442	TRCN0000002328	# 3
MAP2K1	Hs.145442	TRCN0000002329	# 3
MAP2K1	Hs.145442	TRCN0000002330	# 3
MAP2K1	Hs.145442	TRCN0000002331	# 3
MAP2K1	Hs.145442	TRCN0000002332	# 3
AURKC	Hs.98338	TRCN0000002333	# 3
AURKC	Hs.98338	TRCN0000002334	# 3
AURKC	Hs.98338	TRCN0000002335	# 3
AURKC	Hs.98338	TRCN0000002336	# 3
PIK3C2G	Hs.22500	TRCN0000002337	# 3
PIK3C2G	Hs.22500	TRCN0000002338	# 3
PIK3C2G	Hs.22500	TRCN0000002339	# 3
PIK3C2G	Hs.22500	TRCN0000002340	# 3
PIK3C2G	Hs.22500	TRCN0000002341	# 3
MAP3K6	Hs.194694	TRCN0000002343	# 3
MAP3K6	Hs.194694	TRCN0000002344	# 3
MAP3K6	Hs.194694	TRCN0000002345	# 3
MAP3K6	Hs.194694	TRCN0000002346	# 3
FER	Hs.221472	TRCN0000002347	# 3
FER	Hs.221472	TRCN0000002348	# 3
FER	Hs.221472	TRCN0000002349	# 3
FER	Hs.221472	TRCN0000002350	# 3
FER	Hs.221472	TRCN0000002351	# 3
TLK2	Hs.445078	TRCN0000002361	# 3
TLK2	Hs.445078	TRCN0000002362	# 3
TLK2	Hs.445078	TRCN0000002363	# 3
TLK2	Hs.445078	TRCN0000002364	# 3
TLK2	Hs.445078	TRCN0000002365	# 3
PFTK1	Hs.430742	TRCN0000002366	# 3
PFTK1	Hs.430742	TRCN0000002367	# 3
PFTK1	Hs.430742	TRCN0000002368	# 3
PFTK1	Hs.430742	TRCN0000002369	# 3
PFTK1	Hs.430742	TRCN0000002370	# 3
PLK4	Hs.172052	TRCN0000002371	# 3

PLK4	Hs.172052	TRCN0000002372	# 3
PLK4	Hs.172052	TRCN0000002373	# 3
PLK4	Hs.172052	TRCN0000002374	# 3
PLK4	Hs.172052	TRCN0000002375	# 3
CDKL3	Hs.105818	TRCN0000002376	# 3
CDKL3	Hs.105818	TRCN0000002377	# 3
CDKL3	Hs.105818	TRCN0000002378	# 3
CDKL3	Hs.105818	TRCN0000002379	# 3
CDKL3	Hs.105818	TRCN0000002380	# 3
SCYL3	Hs.435560	TRCN0000002386	# 3
SCYL3	Hs.435560	TRCN0000002387	# 3
SCYL3	Hs.435560	TRCN0000002389	# 3
SCYL3	Hs.435560	TRCN0000002390	# 3
YSK4	Hs.659395	TRCN0000002391	# 3
YSK4	Hs.659395	TRCN0000002392	# 3
YSK4	Hs.659395	TRCN0000002393	# 3
YSK4	Hs.659395	TRCN0000002394	# 3
YSK4	Hs.659395	TRCN0000002395	# 3
BRSK1	Hs.182081	TRCN0000002396	# 3
BRSK1	Hs.182081	TRCN0000002397	# 3
BRSK1	Hs.182081	TRCN0000002398	# 3
BRSK1	Hs.182081	TRCN0000002399	# 3
BRSK1	Hs.182081	TRCN0000002400	# 3
MYO3B	Hs.671900	TRCN0000002401	# 3
MYO3B	Hs.671900	TRCN0000002402	# 3
MYO3B	Hs.671900	TRCN0000002403	# 3
MYO3B	Hs.671900	TRCN0000002404	# 3
MYO3B	Hs.671900	TRCN0000002405	# 3
GRK7	Hs.680654	TRCN0000002406	# 3
GRK7	Hs.680654	TRCN0000002407	# 3
GRK7	Hs.680654	TRCN0000002408	# 3
GRK7	Hs.680654	TRCN0000002409	# 3
FLJ25006	Hs.657973	TRCN0000002410	# 3
FLJ25006	Hs.657973	TRCN0000002411	# 3
FLJ25006	Hs.657973	TRCN0000002412	# 3
FLJ25006	Hs.657973	TRCN0000002413	# 3
TSSK4	Hs.314432	TRCN0000002414	# 3

TSSK4	Hs.314432	TRCN0000002415	# 3
TSSK4	Hs.314432	TRCN0000002416	# 3
TSSK4	Hs.314432	TRCN0000002417	# 3
AKT1	Hs.525622	TRCN0000002759	# 3
FYN	Hs.390567	TRCN0000003097	# 3
FYN	Hs.390567	TRCN0000003098	# 3
FYN	Hs.390567	TRCN0000003099	# 3
FYN	Hs.390567	TRCN0000003100	# 3
FYN	Hs.390567	TRCN0000003101	# 3
JAK1	Hs.207538	TRCN0000003102	# 3
JAK1	Hs.207538	TRCN0000003103	# 3
JAK1	Hs.207538	TRCN0000003104	# 3
JAK1	Hs.207538	TRCN0000003105	# 3
MST1R	Hs.517973	TRCN0000003106	# 3
MST1R	Hs.517973	TRCN0000003107	# 3
MST1R	Hs.517973	TRCN0000003108	# 3
MST1R	Hs.517973	TRCN0000003109	# 3
MST1R	Hs.517973	TRCN0000003110	# 3
PRKCB	Hs.460355	TRCN0000003116	# 3
PRKCB	Hs.460355	TRCN0000003117	# 3
PRKCB	Hs.460355	TRCN0000003118	# 3
PRKCB	Hs.460355	TRCN0000003119	# 3
TYK2	Hs.75516	TRCN0000003120	# 3
TYK2	Hs.75516	TRCN0000003121	# 3
TYK2	Hs.75516	TRCN0000003122	# 3
TYK2	Hs.75516	TRCN0000003123	# 3
TYK2	Hs.75516	TRCN0000003124	# 3
STK10	Hs.719134	TRCN0000003135	# 3
STK10	Hs.719134	TRCN0000003136	# 3
STK10	Hs.719134	TRCN0000003137	# 3
STK10	Hs.719134	TRCN0000003138	# 3
STK10	Hs.719134	TRCN0000003139	# 3
CDC2L6	Hs.719138	TRCN0000003140	# 3
CDC2L6	Hs.719138	TRCN0000003141	# 3
CDC2L6	Hs.719138	TRCN0000003142	# 3
CDC2L6	Hs.719138	TRCN0000003143	# 3
CDC2L6	Hs.719138	TRCN0000003144	# 3

LTK	Hs.434481	TRCN0000003154	# 3
LTK	Hs.434481	TRCN0000003155	# 3
LTK	Hs.434481	TRCN0000003156	# 3
LTK	Hs.434481	TRCN0000003157	# 3
RPS6KB1	Hs.463642	TRCN0000003158	# 3
RPS6KB1	Hs.463642	TRCN0000003159	# 3
RPS6KB1	Hs.463642	TRCN0000003160	# 3
RPS6KB1	Hs.463642	TRCN0000003161	# 3
RPS6KB1	Hs.463642	TRCN0000003162	# 3
SYK	Hs.371720	TRCN0000003163	# 3
SYK	Hs.371720	TRCN0000003164	# 3
SYK	Hs.371720	TRCN0000003165	# 3
SYK	Hs.371720	TRCN0000003166	# 3
SYK	Hs.371720	TRCN0000003167	# 3
CDC7	Hs.533573	TRCN0000003168	# 3
CDC7	Hs.533573	TRCN0000003169	# 3
CDC7	Hs.533573	TRCN0000003170	# 3
CDC7	Hs.533573	TRCN0000003171	# 3
CDC7	Hs.533573	TRCN0000003172	# 3
JAK2	Hs.656213	TRCN0000003177	# 3
JAK2	Hs.656213	TRCN0000003178	# 3
JAK2	Hs.656213	TRCN0000003179	# 3
JAK2	Hs.656213	TRCN0000003180	# 3
JAK2	Hs.656213	TRCN0000003181	# 3
TBK1	Hs.505874	TRCN0000003182	# 3
TBK1	Hs.505874	TRCN0000003183	# 3
TBK1	Hs.505874	TRCN0000003184	# 3
TBK1	Hs.505874	TRCN0000003185	# 3
TBK1	Hs.505874	TRCN0000003186	# 3
INSRR	Hs.248138	TRCN0000003187	# 3
INSRR	Hs.248138	TRCN0000003188	# 3
INSRR	Hs.248138	TRCN0000003189	# 3
INSRR	Hs.248138	TRCN0000003190	# 3
RP6-213H	Hs.444247	TRCN0000003191	# 3
RP6-213H	Hs.444247	TRCN0000003192	# 3
RP6-213H	Hs.444247	TRCN0000003193	# 3
RP6-213H	Hs.444247	TRCN0000003194	# 3

RP6-213H	Hs.444247	TRCN0000003195	# 3
HIPK2	Hs.397465	TRCN0000003201	# 3
HIPK2	Hs.397465	TRCN0000003202	# 3
HIPK2	Hs.397465	TRCN0000003203	# 3
HIPK2	Hs.397465	TRCN0000003204	# 3
NUAK2	Hs.497512	TRCN0000003205	# 3
NUAK2	Hs.497512	TRCN0000003206	# 3
NUAK2	Hs.497512	TRCN0000010767	# 3
NUAK2	Hs.497512	TRCN0000003207	# 3
NUAK2	Hs.497512	TRCN0000003208	# 3
KIAA1804	Hs.547779	TRCN0000003209	# 3
KIAA1804	Hs.547779	TRCN0000003210	# 3
KIAA1804	Hs.547779	TRCN0000003211	# 3
KIAA1804	Hs.547779	TRCN0000003212	# 3
KIAA1804	Hs.547779	TRCN0000003213	# 3
PSKH2	Hs.680136	TRCN0000003214	# 3
PSKH2	Hs.680136	TRCN0000003215	# 3
PSKH2	Hs.680136	TRCN0000003216	# 3
PSKH2	Hs.680136	TRCN0000003217	# 3
PSKH2	Hs.680136	TRCN0000003218	# 3
TSSK2	Hs.694070	TRCN0000003219	# 3
TSSK2	Hs.694070	TRCN0000003220	# 3
TSSK2	Hs.694070	TRCN0000003221	# 3
TSSK2	Hs.694070	TRCN0000003222	# 3
TSSK2	Hs.694070	TRCN0000003223	# 3
MLKL	Hs.119878	TRCN0000003224	# 3
MLKL	Hs.119878	TRCN0000003225	# 3
MLKL	Hs.119878	TRCN0000003226	# 3
MLKL	Hs.119878	TRCN0000003227	# 3
MLKL	Hs.119878	TRCN0000003228	# 3
TTBK2	Hs.659846	TRCN0000003230	# 3
TTBK2	Hs.659846	TRCN0000003232	# 3
PAK3	Hs.656789	TRCN0000003242	# 3
PAK3	Hs.656789	TRCN0000003243	# 3
PAK3	Hs.656789	TRCN0000003244	# 3
PAK3	Hs.656789	TRCN0000003245	# 3
PAK3	Hs.656789	TRCN0000003246	# 3

HIPK3	Hs.201918	TRCN0000003255	# 3
HIPK3	Hs.201918	TRCN0000003256	# 3
HIPK3	Hs.201918	TRCN0000003257	# 3
HIPK3	Hs.201918	TRCN0000003258	# 3
RPS6KC1	Hs.591416	TRCN0000003259	# 3
RPS6KC1	Hs.591416	TRCN0000003260	# 3
RPS6KC1	Hs.591416	TRCN0000003261	# 3
RPS6KC1	Hs.591416	TRCN0000003262	# 3
ZAK	Hs.444451	TRCN0000003264	# 3
ZAK	Hs.444451	TRCN0000003267	# 3
ZAK	Hs.444451	TRCN0000003268	# 3
STK31	Hs.309767	TRCN0000003274	# 3
STK31	Hs.309767	TRCN0000003275	# 3
STK31	Hs.309767	TRCN0000003276	# 3
STK31	Hs.309767	TRCN0000003277	# 3
STK31	Hs.309767	TRCN0000003278	# 3
UHMK1	Hs.127310	TRCN0000003280	# 3
UHMK1	Hs.127310	TRCN0000003281	# 3
UHMK1	Hs.127310	TRCN0000003282	# 3
UHMK1	Hs.127310	TRCN0000003283	# 3
RAC1	Hs.413812	TRCN0000004869	# 3
RAC1	Hs.413812	TRCN0000004870	# 4
RAC1	Hs.413812	TRCN0000004871	# 4
RAC1	Hs.413812	TRCN0000004872	# 4
IGF1R	Hs.643120	TRCN0000005111	# 4
IGF1R	Hs.643120	TRCN0000005112	# 4
IGF1R	Hs.643120	TRCN0000005113	# 4
IGF1R	Hs.643120	TRCN0000005114	# 4
IGF1R	Hs.643120	TRCN0000005115	# 4
IGF1R	Hs.643120	TRCN0000005116	# 4
IGF1R	Hs.643120	TRCN0000005117	# 4
IGF1R	Hs.643120	TRCN0000005118	# 4
TRRAP	Hs.203952	TRCN0000005361	# 4
TRRAP	Hs.203952	TRCN0000005362	# 4
TRRAP	Hs.203952	TRCN0000005364	# 4
TRRAP	Hs.203952	TRCN0000005365	# 4
RIOK3	Hs.719109	TRCN0000005418	# 4

RIOK3	Hs.719109	TRCN0000005419	# 4
RIOK3	Hs.719109	TRCN0000005420	# 4
RIOK3	Hs.719109	TRCN0000005421	# 4
RIOK3	Hs.719109	TRCN0000005422	# 4
PI4KB	Hs.632465	TRCN0000005692	# 4
PI4KB	Hs.632465	TRCN0000005693	# 4
PI4KB	Hs.632465	TRCN0000005694	# 4
PI4KB	Hs.632465	TRCN0000005695	# 4
PI4KB	Hs.632465	TRCN0000005696	# 4
PRKCI	Hs.478199	TRCN0000006037	# 4
PRKCI	Hs.478199	TRCN0000006038	# 4
PRKCI	Hs.478199	TRCN0000006039	# 4
PRKCI	Hs.478199	TRCN0000006040	# 4
PRKCI	Hs.478199	TRCN0000006041	# 4
CSNK1A1	Hs.712555	TRCN0000006042	# 4
CSNK1A1	Hs.712555	TRCN0000006043	# 4
CSNK1A1	Hs.712555	TRCN0000006044	# 4
CSNK1A1	Hs.712555	TRCN0000006045	# 4
CDKL1	Hs.679430	TRCN0000006069	# 4
CDKL1	Hs.679430	TRCN0000006070	# 4
CDKL1	Hs.679430	TRCN0000006071	# 4
CDKL1	Hs.679430	TRCN0000006072	# 4
CDKL1	Hs.679430	TRCN0000006073	# 4
DGKA	Hs.524488	TRCN0000006078	# 4
DGKA	Hs.524488	TRCN0000006079	# 4
DGKA	Hs.524488	TRCN0000006080	# 4
DGKA	Hs.524488	TRCN0000006081	# 4
DGKE	Hs.239514	TRCN0000006083	# 4
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DGKE	Hs.239514	TRCN0000006085	# 4
DGKE	Hs.239514	TRCN0000006086	# 4
DGKE	Hs.239514	TRCN0000006087	# 4
DGKI	Hs.242947	TRCN0000006088	# 4
DGKI	Hs.242947	TRCN0000006089	# 4
DGKI	Hs.242947	TRCN0000006090	# 4
DGKI	Hs.242947	TRCN0000006091	# 4
DGKQ	Hs.584858	TRCN0000006092	# 4

DGKQ	Hs.584858	TRCN0000006093	# 4
DGKQ	Hs.584858	TRCN0000006094	# 4
DGKQ	Hs.584858	TRCN0000006095	# 4
MKNK2	Hs.515032	TRCN0000006096	# 4
MKNK2	Hs.515032	TRCN0000006097	# 4
MKNK2	Hs.515032	TRCN0000006098	# 4
MKNK2	Hs.515032	TRCN0000006099	# 4
MKNK2	Hs.515032	TRCN0000006100	# 4
MAPK12	Hs.432642	TRCN0000006145	# 4
MAPK12	Hs.432642	TRCN0000006146	# 4
MAPK12	Hs.432642	TRCN0000006147	# 4
MAPK12	Hs.432642	TRCN0000006148	# 4
MAPK12	Hs.432642	TRCN0000006149	# 4
MAPK3	Hs.861	TRCN0000006150	# 4
MAPK3	Hs.861	TRCN0000006151	# 4
MAPK3	Hs.861	TRCN0000006152	# 4
MAPKAPK	Hs.234521	TRCN0000006153	# 4
MAPKAPK	Hs.234521	TRCN0000006154	# 4
MAPKAPK	Hs.234521	TRCN0000006155	# 4
MAPKAPK	Hs.234521	TRCN0000006156	# 4
MAPKAPK	Hs.234521	TRCN0000006157	# 4
MAP3K1	Hs.653654	TRCN0000006158	# 4
MAP3K1	Hs.653654	TRCN0000006159	# 4
MAP3K1	Hs.653654	TRCN0000006160	# 4
MAP3K1	Hs.653654	TRCN0000006161	# 4
MAP3K1	Hs.653654	TRCN0000006162	# 4
PHKG1	Hs.715728	TRCN0000006201	# 4
PHKG1	Hs.715728	TRCN0000006202	# 4
PHKG1	Hs.715728	TRCN0000006203	# 4
PHKG1	Hs.715728	TRCN0000006204	# 4
PHKG1	Hs.715728	TRCN0000006205	# 4
CDC2L2	Hs.709182	TRCN0000006206	# 4
CDC2L2	Hs.709182	TRCN0000006207	# 4
CDC2L2	Hs.709182	TRCN0000006208	# 4
CDC2L2	Hs.709182	TRCN0000006209	# 4
CDC2L2	Hs.709182	TRCN0000006210	# 4
EEF2K	Hs.498892	TRCN0000006221	# 4

EEF2K	Hs.498892	TRCN0000006222	# 4
EEF2K	Hs.498892	TRCN0000006223	# 4
EEF2K	Hs.498892	TRCN0000006224	# 4
EEF2K	Hs.498892	TRCN0000006225	# 4
KSR1	Hs.133534	TRCN0000006226	# 4
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KSR1	Hs.133534	TRCN0000006229	# 4
KSR1	Hs.133534	TRCN0000006230	# 4
MKNK1	Hs.371594	TRCN0000006231	# 4
MKNK1	Hs.371594	TRCN0000006232	# 4
MKNK1	Hs.371594	TRCN0000006233	# 4
MKNK1	Hs.371594	TRCN0000006234	# 4
PKMYT1	Hs.77783	TRCN0000006235	# 4
PKMYT1	Hs.77783	TRCN0000006236	# 4
PKMYT1	Hs.77783	TRCN0000006237	# 4
MINK1	Hs.443417	TRCN0000006238	# 4
MINK1	Hs.443417	TRCN0000006239	# 4
MINK1	Hs.443417	TRCN0000006240	# 4
PCTK2	Hs.506415	TRCN0000006241	# 4
PCTK2	Hs.506415	TRCN0000006242	# 4
PCTK2	Hs.506415	TRCN0000006243	# 4
PCTK2	Hs.506415	TRCN0000006244	# 4
PCTK2	Hs.506415	TRCN0000006245	# 4
PLK1	Hs.592049	TRCN0000006246	# 4
PLK1	Hs.592049	TRCN0000006247	# 4
PLK1	Hs.592049	TRCN0000006248	# 4
PLK1	Hs.592049	TRCN0000006249	# 4
PAK2	Hs.518530	TRCN0000006250	# 4
PAK2	Hs.518530	TRCN0000006251	# 4
PAK2	Hs.518530	TRCN0000006252	# 4
PAK2	Hs.518530	TRCN0000006253	# 4
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PRKDC	Hs.491682	TRCN0000006256	# 4
PRKDC	Hs.491682	TRCN0000006257	# 4
PRKDC	Hs.491682	TRCN0000006258	# 4
PRKDC	Hs.491682	TRCN0000006259	# 4

PDK1	Hs.470633	TRCN0000006260	# 4
PDK1	Hs.470633	TRCN0000006261	# 4
PDK1	Hs.470633	TRCN0000006262	# 4
PDK1	Hs.470633	TRCN0000006263	# 4
PDK4	Hs.8364	TRCN0000006264	# 4
PDK4	Hs.8364	TRCN0000006265	# 4
PDK4	Hs.8364	TRCN0000006266	# 4
PDK4	Hs.8364	TRCN0000006267	# 4
STK25	Hs.516807	TRCN0000006269	# 4
STK25	Hs.516807	TRCN0000006270	# 4
STK25	Hs.516807	TRCN0000006271	# 4
STK25	Hs.516807	TRCN0000006272	# 4
STK25	Hs.516807	TRCN0000006273	# 4
SRPK2	Hs.285197	TRCN0000006274	# 4
SRPK2	Hs.285197	TRCN0000006275	# 4
SRPK2	Hs.285197	TRCN0000006276	# 4
SRPK2	Hs.285197	TRCN0000006277	# 4
SRPK2	Hs.285197	TRCN0000006278	# 4
TAF1	Hs.158560	TRCN0000006284	# 4
TAF1	Hs.158560	TRCN0000006285	# 4
TAF1	Hs.158560	TRCN0000006286	# 4
TAF1	Hs.158560	TRCN0000006287	# 4
TAF1	Hs.158560	TRCN0000006288	# 4
BRAF	Hs.550061	TRCN0000006289	# 4
BRAF	Hs.550061	TRCN0000006290	# 4
BRAF	Hs.550061	TRCN0000006291	# 4
BRAF	Hs.550061	TRCN0000006292	# 4
BRAF	Hs.550061	TRCN0000006293	# 4
PRKCH	Hs.333907	TRCN0000006294	# 4
PRKCH	Hs.333907	TRCN0000006295	# 4
PRKCH	Hs.333907	TRCN0000006296	# 4
PRKCH	Hs.333907	TRCN0000006297	# 4
PRKCH	Hs.333907	TRCN0000006298	# 4
BRDT	Hs.482520	TRCN0000006303	# 4
BRDT	Hs.482520	TRCN0000006304	# 4
BRDT	Hs.482520	TRCN0000006305	# 4
BRDT	Hs.482520	TRCN0000006306	# 4

BRDT	Hs.482520	TRCN0000006307	# 4
BRD2	Hs.75243	TRCN0000006308	# 4
BRD2	Hs.75243	TRCN0000006309	# 4
BRD2	Hs.75243	TRCN0000006310	# 4
BRD2	Hs.75243	TRCN0000006311	# 4
BRD2	Hs.75243	TRCN0000006312	# 4
CIT	Hs.119594	TRCN0000006313	# 4
CIT	Hs.119594	TRCN0000006314	# 4
CIT	Hs.119594	TRCN0000006315	# 4
CIT	Hs.119594	TRCN0000006316	# 4
CIT	Hs.119594	TRCN0000006317	# 4
FASTK	Hs.647094	TRCN0000006318	# 4
FASTK	Hs.647094	TRCN0000006319	# 4
FASTK	Hs.647094	TRCN0000006321	# 4
FASTK	Hs.647094	TRCN0000006322	# 4
ICK	Hs.417022	TRCN0000006323	# 4
ICK	Hs.417022	TRCN0000006324	# 4
ICK	Hs.417022	TRCN0000006325	# 4
ICK	Hs.417022	TRCN0000006326	# 4
ICK	Hs.417022	TRCN0000006327	# 4
MARK1	Hs.497806	TRCN0000006330	# 4
MARK1	Hs.497806	TRCN0000006331	# 4
MARK1	Hs.497806	TRCN0000006332	# 4
PCTK3	Hs.445402	TRCN0000006333	# 4
PCTK3	Hs.445402	TRCN0000006335	# 4
PCTK3	Hs.445402	TRCN0000006336	# 4
PCTK3	Hs.445402	TRCN0000006337	# 4
PRKY	Hs.632287	TRCN0000006343	# 4
PRKX	Hs.390788	TRCN0000006344	# 4
RIPK2	Hs.103755	TRCN0000006348	# 4
RIPK2	Hs.103755	TRCN0000006349	# 4
RIPK2	Hs.103755	TRCN0000006350	# 4
RIPK2	Hs.103755	TRCN0000006351	# 4
RPS6KA2	Hs.719131	TRCN0000006352	# 4
RPS6KA2	Hs.719131	TRCN0000006353	# 4
RPS6KA2	Hs.719131	TRCN0000006354	# 4
RPS6KA2	Hs.719131	TRCN0000006355	# 4

TTK	Hs.169840	TRCN0000006356	# 4
TTK	Hs.169840	TRCN0000006357	# 4
BMX	Hs.495731	TRCN0000006359	# 4
BMX	Hs.495731	TRCN0000006360	# 4
BMX	Hs.495731	TRCN0000006361	# 4
BMX	Hs.495731	TRCN0000006362	# 4
BMX	Hs.495731	TRCN0000006363	# 4
PKLR	Hs.95990	TRCN0000006383	# 4
PKLR	Hs.95990	TRCN0000006384	# 4
PKLR	Hs.95990	TRCN0000006385	# 4
PKLR	Hs.95990	TRCN0000006386	# 4
PKLR	Hs.95990	TRCN0000006387	# 4
EPHA1	Hs.89839	TRCN0000006398	# 4
EPHA1	Hs.89839	TRCN0000006399	# 4
EPHA1	Hs.89839	TRCN0000006401	# 4
EPHA1	Hs.89839	TRCN0000006402	# 4
EPHA2	Hs.171596	TRCN0000006404	# 4
EPHA2	Hs.171596	TRCN0000006405	# 4
EPHA2	Hs.171596	TRCN0000006407	# 4
EPHA3	Hs.123642	TRCN0000006409	# 4
EPHA3	Hs.123642	TRCN0000006410	# 4
EPHA3	Hs.123642	TRCN0000006411	# 4
EPHA3	Hs.123642	TRCN0000006412	# 4
EPHA5	Hs.654492	TRCN0000006413	# 4
EPHA5	Hs.654492	TRCN0000006414	# 4
EPHA5	Hs.654492	TRCN0000006415	# 4
EPHA5	Hs.654492	TRCN0000006416	# 4
EPHA5	Hs.654492	TRCN0000006417	# 4
EPHA7	Hs.73962	TRCN0000006418	# 4
EPHA7	Hs.73962	TRCN0000006419	# 4
EPHA7	Hs.73962	TRCN0000006420	# 4
EPHA7	Hs.73962	TRCN0000006421	# 4
EPHB2	Hs.523329	TRCN0000006422	# 4
EPHB2	Hs.523329	TRCN0000006423	# 4
EPHB2	Hs.523329	TRCN0000006424	# 4
EPHB2	Hs.523329	TRCN0000006425	# 4
EPHB2	Hs.523329	TRCN0000006426	# 4

EPHB3	Hs.2913	TRCN0000006427	# 4
EPHB3	Hs.2913	TRCN0000006428	# 4
EPHB3	Hs.2913	TRCN0000006429	# 4
EPHB3	Hs.2913	TRCN0000006430	# 4
PTK7	Hs.90572	TRCN0000006431	# 4
PTK7	Hs.90572	TRCN0000006433	# 4
PTK7	Hs.90572	TRCN0000006434	# 4
PTK7	Hs.90572	TRCN0000006435	# 4
STK36	Hs.471404	TRCN0000006986	# 4
STK36	Hs.471404	TRCN0000006987	# 4
STK36	Hs.471404	TRCN0000006989	# 4
STK36	Hs.471404	TRCN0000006990	# 4
CDC2L2	Hs.709182	TRCN0000006992	# 4
CDC2L2	Hs.709182	TRCN0000006993	# 4
CDC2L2	Hs.709182	TRCN0000006995	# 4
HIPK4	Hs.79363	TRCN0000006996	# 4
HIPK4	Hs.79363	TRCN0000006997	# 4
HIPK4	Hs.79363	TRCN0000006998	# 4
HIPK4	Hs.79363	TRCN0000006999	# 4
HIPK4	Hs.79363	TRCN0000007000	# 4
MAP2K2	Hs.465627	TRCN0000007006	# 4
MAP2K2	Hs.465627	TRCN0000007007	# 4
MAP2K2	Hs.465627	TRCN0000007008	# 4
WNK4	Hs.105448	TRCN0000007020	# 4
WNK4	Hs.105448	TRCN0000007021	# 4
WNK4	Hs.105448	TRCN0000007022	# 4
WNK4	Hs.105448	TRCN0000007023	# 4
CSNK1A1	Hs.512897	TRCN0000007024	# 4
CSNK1A1	Hs.512897	TRCN0000007025	# 4
CSNK1A1	Hs.512897	TRCN0000007026	# 4
CSNK1A1	Hs.512897	TRCN0000007027	# 4
CSNK1A1	Hs.512897	TRCN0000007028	# 4
LRRK1	Hs.407918	TRCN0000007038	# 4
LRRK1	Hs.407918	TRCN0000007039	# 4
LRRK1	Hs.407918	TRCN0000007040	# 4
LRRK1	Hs.407918	TRCN0000007041	# 4
STK32C	Hs.469002	TRCN0000007043	# 4

STK32C	Hs.469002	TRCN0000007045	# 4
STK32C	Hs.469002	TRCN0000007046	# 4
STRADA	Hs.514402	TRCN0000007047	# 4
STRADA	Hs.514402	TRCN0000007048	# 4
STRADA	Hs.514402	TRCN0000007049	# 4
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STRADA	Hs.514402	TRCN0000007051	# 4
PASK	Hs.397891	TRCN0000007052	# 4
PASK	Hs.397891	TRCN0000007053	# 4
PASK	Hs.397891	TRCN0000007054	# 4
PASK	Hs.397891	TRCN0000007055	# 4
TLK1	Hs.719163	TRCN0000007056	# 4
TLK1	Hs.719163	TRCN0000007057	# 4
TLK1	Hs.719163	TRCN0000007058	# 4
TLK1	Hs.719163	TRCN0000007059	# 4
TLK1	Hs.719163	TRCN0000007060	# 4
KSR2	Hs.375836	TRCN0000007061	# 4
KSR2	Hs.375836	TRCN0000007062	# 4
KSR2	Hs.375836	TRCN0000007065	# 4
SRPK3	Hs.104865	TRCN0000007067	# 4
SRPK3	Hs.104865	TRCN0000007068	# 4
MGC4210!	Hs.25845	TRCN0000007069	# 4
MGC4210!	Hs.25845	TRCN0000007070	# 4
MGC4210!	Hs.25845	TRCN0000007071	# 4
STRADB	Hs.652338	TRCN0000007072	# 4
STRADB	Hs.652338	TRCN0000007073	# 4
STRADB	Hs.652338	TRCN0000007074	# 4
STRADB	Hs.652338	TRCN0000007075	# 4
STRADB	Hs.652338	TRCN0000007076	# 4
MGC1616!	Hs.292986	TRCN0000007077	# 4
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MGC1616!	Hs.292986	TRCN0000007079	# 4
MGC1616!	Hs.292986	TRCN0000007080	# 4
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RPS6KL1	Hs.414481	TRCN0000007082	# 4
RPS6KL1	Hs.414481	TRCN0000007083	# 4
RPS6KL1	Hs.414481	TRCN0000007084	# 4

RPS6KL1	Hs.414481	TRCN0000007085	# 4
RPS6KL1	Hs.414481	TRCN0000007086	# 4
NEK8	Hs.448468	TRCN0000007087	# 4
NEK8	Hs.448468	TRCN0000007088	# 4
NEK8	Hs.448468	TRCN0000007089	# 4
NEK8	Hs.448468	TRCN0000007090	# 4
NEK8	Hs.448468	TRCN0000007091	# 4
PINK1	Hs.389171	TRCN0000007097	# 4
PINK1	Hs.389171	TRCN0000007098	# 4
PINK1	Hs.389171	TRCN0000007099	# 4
PINK1	Hs.389171	TRCN0000007101	# 4
MAP3K13	Hs.656069	TRCN0000007104	# 4
MAP3K13	Hs.656069	TRCN0000007105	# 4
MAP3K13	Hs.656069	TRCN0000007106	# 4
PAK7	Hs.32539	TRCN0000007107	# 4
PAK7	Hs.32539	TRCN0000007108	# 4
PAK7	Hs.32539	TRCN0000007109	# 4
PAK7	Hs.32539	TRCN0000007110	# 4
PAK7	Hs.32539	TRCN0000007111	# 4
SCYL1	Hs.238839	TRCN0000007122	# 4
SCYL1	Hs.238839	TRCN0000007123	# 4
SCYL1	Hs.238839	TRCN0000007124	# 4
SCYL1	Hs.238839	TRCN0000007125	# 4
SCYL1	Hs.238839	TRCN0000007126	# 4
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STK32A	Hs.585069	TRCN0000007128	# 4
STK32A	Hs.585069	TRCN0000007129	# 4
STK32A	Hs.585069	TRCN0000007130	# 4
STK32A	Hs.585069	TRCN0000007131	# 4
RIPK4	Hs.517310	TRCN0000007132	# 4
RIPK4	Hs.517310	TRCN0000007133	# 4
RIPK4	Hs.517310	TRCN0000007134	# 4
RIPK4	Hs.517310	TRCN0000007135	# 4
RIPK4	Hs.517310	TRCN0000007136	# 4
TRIB2	Hs.467751	TRCN0000007142	# 4
TRIB2	Hs.467751	TRCN0000007143	# 4
TRIB2	Hs.467751	TRCN0000007144	# 4

TRIB2	Hs.467751	TRCN0000007145	# 4
TRIB2	Hs.467751	TRCN0000007146	# 4
SCYL2	Hs.506481	TRCN0000007147	# 4
SCYL2	Hs.506481	TRCN0000007148	# 4
SCYL2	Hs.506481	TRCN0000007149	# 4
SCYL2	Hs.506481	TRCN0000007150	# 4
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MARK4	Hs.34314	TRCN0000007156	# 4
MARK4	Hs.34314	TRCN0000007157	# 4
MARK4	Hs.34314	TRCN0000007158	# 4
MARK4	Hs.34314	TRCN0000007159	# 4
MARK4	Hs.34314	TRCN0000007160	# 4
HIPK1	Hs.532363	TRCN0000007161	# 4
HIPK1	Hs.532363	TRCN0000007162	# 4
HIPK1	Hs.532363	TRCN0000007163	# 4
HIPK1	Hs.532363	TRCN0000007164	# 4
HIPK1	Hs.532363	TRCN0000007165	# 4
NPR1	Hs.490330	TRCN0000007326	# 4
NPR1	Hs.490330	TRCN0000007327	# 4
NPR1	Hs.490330	TRCN0000007328	# 4
NPR1	Hs.490330	TRCN0000007329	# 4
ADCK4	Hs.130712	TRCN0000007330	# 4
ADCK4	Hs.130712	TRCN0000007331	# 4
ADCK4	Hs.130712	TRCN0000007332	# 4
ADCK4	Hs.130712	TRCN0000007334	# 4
CDC2	Hs.334562	TRCN0000007923	# 4
CDC2	Hs.334562	TRCN0000007924	# 4
CDC2	Hs.334562	TRCN0000007925	# 4
CDC2	Hs.334562	TRCN0000007926	# 4
CDC2	Hs.334562	TRCN0000007927	# 4
MYLK4	Hs.127830	TRCN0000008902	# 4
TRIM28	Hs.467408	TRCN0000017998	# 4
TRIM28	Hs.467408	TRCN0000018000	# 4
TRIM28	Hs.467408	TRCN0000018001	# 4
TRIM28	Hs.467408	TRCN0000018002	# 4
IKBKB	Hs.597664	TRCN0000018915	# 4
IKBKB	Hs.597664	TRCN0000018916	# 4

IKBKB	Hs.597664	TRCN0000018917	# 4
IKBKB	Hs.597664	TRCN0000018918	# 4
IKBKB	Hs.597664	TRCN0000018919	# 4
TEC	Hs.479670	TRCN0000019559	# 4
TEC	Hs.479670	TRCN0000019560	# 4
TEC	Hs.479670	TRCN0000019561	# 4
TEC	Hs.479670	TRCN0000019562	# 4
TEC	Hs.479670	TRCN0000019563	# 4
PI4KA	Hs.529438	TRCN0000021199	# 4
PI4KA	Hs.529438	TRCN0000021200	# 4
PI4KA	Hs.529438	TRCN0000021201	# 4
PI4KA	Hs.529438	TRCN0000021202	# 4
PI4KA	Hs.529438	TRCN0000021203	# 4
TRIM24	Hs.490287	TRCN0000021259	# 4
TRIM24	Hs.490287	TRCN0000021260	# 4
TRIM24	Hs.490287	TRCN0000021261	# 4
TRIM24	Hs.490287	TRCN0000021262	# 4
TRIM24	Hs.490287	TRCN0000021263	# 4
BRD3	Hs.522472	TRCN0000021374	# 4
BRD3	Hs.522472	TRCN0000021375	# 4
BRD3	Hs.522472	TRCN0000021376	# 4
BRD3	Hs.522472	TRCN0000021377	# 4
BRD3	Hs.522472	TRCN0000021378	# 4
EPHA10	Hs.129435	TRCN0000021384	# 4
EPHA10	Hs.129435	TRCN0000021385	# 4
EPHA10	Hs.129435	TRCN0000021386	# 4
EPHA10	Hs.129435	TRCN0000021387	# 4
ALPK2	Hs.628152	TRCN0000021389	# 4
ALPK2	Hs.628152	TRCN0000021390	# 4
ALPK2	Hs.628152	TRCN0000021391	# 4
ALPK2	Hs.628152	TRCN0000021392	# 4
ALPK2	Hs.628152	TRCN0000021393	# 4
NRBP2	Hs.521926	TRCN0000021399	# 4
NRBP2	Hs.521926	TRCN0000021400	# 4
NRBP2	Hs.521926	TRCN0000021401	# 4
NRBP2	Hs.521926	TRCN0000021402	# 4
NRBP2	Hs.521926	TRCN0000021403	# 4

MAP3K15	Hs.713701	TRCN0000021404	# 4
MAP3K15	Hs.713701	TRCN0000021405	# 4
MAP3K15	Hs.713701	TRCN0000021406	# 4
MAP3K15	Hs.713701	TRCN0000021407	# 4
MAP3K15	Hs.713701	TRCN0000021408	# 4
NEK5	Hs.672144	TRCN0000021409	# 4
NEK5	Hs.672144	TRCN0000021410	# 4
NEK5	Hs.672144	TRCN0000021411	# 4
NEK5	Hs.672144	TRCN0000021412	# 4
NEK5	Hs.672144	TRCN0000021413	# 4
EPHA6	Hs.653244	TRCN0000021414	# 4
EPHA6	Hs.653244	TRCN0000021416	# 4
EPHA6	Hs.653244	TRCN0000021417	# 4
EPHA6	Hs.653244	TRCN0000021418	# 4
BRD4	Hs.187763	TRCN0000021424	# 4
BRD4	Hs.187763	TRCN0000021425	# 4
BRD4	Hs.187763	TRCN0000021426	# 4
BRD4	Hs.187763	TRCN0000021427	# 4
BRD4	Hs.187763	TRCN0000021428	# 4
ERN2	Hs.592041	TRCN0000021429	# 4
ERN2	Hs.592041	TRCN0000021430	# 4
ERN2	Hs.592041	TRCN0000021431	# 4
ERN2	Hs.592041	TRCN0000021432	# 4
ERN2	Hs.592041	TRCN0000021433	# 4
AATK	Hs.514575	TRCN0000021434	# 4
AATK	Hs.514575	TRCN0000021435	# 4
AATK	Hs.514575	TRCN0000021436	# 4
AATK	Hs.514575	TRCN0000021437	# 4
MAST3	Hs.466184	TRCN0000021439	# 4
MAST3	Hs.466184	TRCN0000021440	# 4
MAST3	Hs.466184	TRCN0000021441	# 4
MAST3	Hs.466184	TRCN0000021442	# 4
MAST3	Hs.466184	TRCN0000021443	# 4
BMPRI1A	Hs.524477	TRCN0000021446	# 4
BMPRI1A	Hs.524477	TRCN0000021447	# 4
BMPRI1A	Hs.524477	TRCN0000021448	# 4
MAST4	Hs.595458	TRCN0000021449	# 4

MAST4	Hs.595458	TRCN0000021450	# 4
MAST4	Hs.595458	TRCN0000021452	# 4
MAST4	Hs.595458	TRCN0000021453	# 4
LRRK2	Hs.187636	TRCN0000021459	# 4
LRRK2	Hs.187636	TRCN0000021460	# 4
LRRK2	Hs.187636	TRCN0000021461	# 4
LRRK2	Hs.187636	TRCN0000021462	# 4
LRRK2	Hs.187636	TRCN0000021463	# 4
CDK5	Hs.647078	TRCN0000021464	# 4
CDK5	Hs.647078	TRCN0000021465	# 4
CDK5	Hs.647078	TRCN0000021466	# 4
CDK5	Hs.647078	TRCN0000021467	# 4
CDK5	Hs.647078	TRCN0000021468	# 4
CDC42BP	Hs.293590	TRCN0000021469	# 4
CDC42BP	Hs.293590	TRCN0000021471	# 4
CDC42BP	Hs.293590	TRCN0000021472	# 4
CDC42BP	Hs.293590	TRCN0000021473	# 4
ALPK1	Hs.652825	TRCN0000021474	# 4
ALPK1	Hs.652825	TRCN0000021475	# 4
ALPK1	Hs.652825	TRCN0000021476	# 4
ALPK1	Hs.652825	TRCN0000021477	# 4
ALPK1	Hs.652825	TRCN0000021478	# 4
ADCK5	Hs.283374	TRCN0000021480	# 4
ADCK5	Hs.283374	TRCN0000021481	# 4
ADCK5	Hs.283374	TRCN0000021482	# 4
ADCK5	Hs.283374	TRCN0000021483	# 4
LMTK3	Hs.207426	TRCN0000021484	# 4
LMTK3	Hs.207426	TRCN0000021485	# 4
LMTK3	Hs.207426	TRCN0000021486	# 4
LMTK3	Hs.207426	TRCN0000021487	# 4
LMTK3	Hs.207426	TRCN0000021488	# 4
MAP3K9	Hs.593542	TRCN0000021494	# 4
MAP3K9	Hs.593542	TRCN0000021495	# 4
MAP3K9	Hs.593542	TRCN0000021496	# 4
MAP3K9	Hs.593542	TRCN0000021497	# 4
MAP3K9	Hs.593542	TRCN0000021498	# 4
ADCK1	Hs.413208	TRCN0000021499	# 4

ADCK1	Hs.413208	TRCN0000021500	# 4
ADCK1	Hs.413208	TRCN0000021501	# 4
ADCK1	Hs.413208	TRCN0000021502	# 4
ADCK1	Hs.413208	TRCN0000021503	# 4
CABC1	Hs.118241	TRCN0000021504	# 4
CABC1	Hs.118241	TRCN0000021505	# 4
CABC1	Hs.118241	TRCN0000021506	# 4
CABC1	Hs.118241	TRCN0000021507	# 4
CABC1	Hs.118241	TRCN0000021508	# 4
RPS6KA4	Hs.105584	TRCN0000021514	# 4
RPS6KA4	Hs.105584	TRCN0000021515	# 4
RPS6KA4	Hs.105584	TRCN0000021517	# 4
RPS6KA4	Hs.105584	TRCN0000021518	# 4
CDKL4	Hs.403201	TRCN0000021519	# 4
CDKL4	Hs.403201	TRCN0000021520	# 4
CDKL4	Hs.403201	TRCN0000021521	# 4
CDKL4	Hs.403201	TRCN0000021522	# 5
CDKL4	Hs.403201	TRCN0000021523	# 5
GSG2	Hs.534059	TRCN0000021529	# 5
GSG2	Hs.534059	TRCN0000021533	# 5
MAST1	Hs.227489	TRCN0000021545	# 5
MAST1	Hs.227489	TRCN0000021546	# 5
MAST1	Hs.227489	TRCN0000021547	# 5
PTK6	Hs.51133	TRCN0000021549	# 5
PTK6	Hs.51133	TRCN0000021550	# 5
PTK6	Hs.51133	TRCN0000021551	# 5
PTK6	Hs.51133	TRCN0000021552	# 5
PTK6	Hs.51133	TRCN0000021553	# 5
DCLK3	Hs.631907	TRCN0000021554	# 5
DCLK3	Hs.631907	TRCN0000021555	# 5
DCLK3	Hs.631907	TRCN0000021556	# 5
DCLK3	Hs.631907	TRCN0000021557	# 5
TRPM7	Hs.512894	TRCN0000021559	# 5
TRPM7	Hs.512894	TRCN0000021561	# 5
MAP3K11	Hs.502872	TRCN0000021564	# 5
MAP3K11	Hs.502872	TRCN0000021565	# 5
MAP3K11	Hs.502872	TRCN0000021566	# 5

MAP3K11	Hs.502872	TRCN0000021567	# 5
MAP3K11	Hs.502872	TRCN0000021568	# 5
PNCK	Hs.436667	TRCN0000021569	# 5
PNCK	Hs.436667	TRCN0000021570	# 5
NEK1	Hs.481181	TRCN0000021580	# 5
NEK1	Hs.481181	TRCN0000021581	# 5
NEK1	Hs.481181	TRCN0000021582	# 5
NEK1	Hs.481181	TRCN0000021583	# 5
TRPM6	Hs.272225	TRCN0000021584	# 5
TRPM6	Hs.272225	TRCN0000021585	# 5
TRPM6	Hs.272225	TRCN0000021587	# 5
TRPM6	Hs.272225	TRCN0000021588	# 5
CLK2	Hs.73986	TRCN0000021591	# 5
CLK2	Hs.73986	TRCN0000021593	# 5
OBSCN	Hs.656999	TRCN0000021599	# 5
OBSCN	Hs.656999	TRCN0000021600	# 5
OBSCN	Hs.656999	TRCN0000021601	# 5
OBSCN	Hs.656999	TRCN0000021602	# 5
OBSCN	Hs.656999	TRCN0000021603	# 5
TRIM33	Hs.26837	TRCN0000022004	# 5
TRIM33	Hs.26837	TRCN0000022005	# 5
TRIM33	Hs.26837	TRCN0000022006	# 5
TRIM33	Hs.26837	TRCN0000022007	# 5
TRIM33	Hs.26837	TRCN0000022008	# 5
ROR1	Hs.654491	TRCN0000022154	# 5
ROR1	Hs.654491	TRCN0000022156	# 5
ROR1	Hs.654491	TRCN0000022157	# 5
ROR1	Hs.654491	TRCN0000022158	# 5
PRKACG	Hs.158029	TRCN0000022354	# 5
PRKACG	Hs.158029	TRCN0000022355	# 5
PRKACG	Hs.158029	TRCN0000022356	# 5
PRKACG	Hs.158029	TRCN0000022357	# 5
KSR2	Hs.375836	TRCN0000022631	# 5
CDK8	Hs.382306	TRCN0000023264	# 5
BRSK1	Hs.182081	TRCN0000024403	# 5
CSNK2A1	Hs.644056	TRCN0000027627	# 5
MAP3K15	Hs.713701	TRCN0000032582	# 5

PIK3R5	Hs.278901	TRCN0000033269	# 5
PIK3R5	Hs.278901	TRCN0000033270	# 5
PIK3R5	Hs.278901	TRCN0000033271	# 5
PIK3CD	Hs.518451	TRCN0000033274	# 5
PIK3CD	Hs.518451	TRCN0000033276	# 5
PIK3CD	Hs.518451	TRCN0000033277	# 5
PIK3CD	Hs.518451	TRCN0000033278	# 5
PIK3CG	Hs.32942	TRCN0000033279	# 5
PIK3CG	Hs.32942	TRCN0000033280	# 5
PIK3CG	Hs.32942	TRCN0000033281	# 5
PIK3CG	Hs.32942	TRCN0000033282	# 5
PIK3CG	Hs.32942	TRCN0000033283	# 5
PIK3R1	Hs.132225	TRCN0000033284	# 5
PIK3R1	Hs.132225	TRCN0000033285	# 5
PIK3R1	Hs.132225	TRCN0000033286	# 5
PIK3R1	Hs.132225	TRCN0000033287	# 5
PIK3R1	Hs.132225	TRCN0000033288	# 5
PIK3R3	Hs.655387	TRCN0000033289	# 5
PIK3R3	Hs.655387	TRCN0000033290	# 5
PIK3R3	Hs.655387	TRCN0000033291	# 5
PIK3R3	Hs.655387	TRCN0000033292	# 5
PIK3R3	Hs.655387	TRCN0000033293	# 5
MET	Hs.132966	TRCN0000036199	# 5
MET	Hs.132966	TRCN0000036200	# 5
MET	Hs.132966	TRCN0000036201	# 5
MET	Hs.132966	TRCN0000036202	# 5
MET	Hs.132966	TRCN0000036203	# 5
SPHK1	Hs.68061	TRCN0000036964	# 5
SPHK1	Hs.68061	TRCN0000036965	# 5
SPHK1	Hs.68061	TRCN0000036966	# 5
SPHK1	Hs.68061	TRCN0000036967	# 5
SPHK2	Hs.528006	TRCN0000036972	# 5
SPHK2	Hs.528006	TRCN0000036973	# 5
SBK1	Hs.97837	TRCN0000037394	# 5
SBK1	Hs.97837	TRCN0000037396	# 5
SBK1	Hs.97837	TRCN0000037397	# 5
SBK1	Hs.97837	TRCN0000037398	# 5

RIOK1	Hs.437474	TRCN0000037399	# 5
RIOK1	Hs.437474	TRCN0000037400	# 5
RIOK1	Hs.437474	TRCN0000037401	# 5
RIOK1	Hs.437474	TRCN0000037403	# 5
TRIB3	Hs.516826	TRCN0000037404	# 5
TRIB3	Hs.516826	TRCN0000037405	# 5
TRIB3	Hs.516826	TRCN0000037406	# 5
TRIB3	Hs.516826	TRCN0000037407	# 5
TRIB3	Hs.516826	TRCN0000037408	# 5
SMG1	Hs.460179	TRCN0000037409	# 5
SMG1	Hs.460179	TRCN0000037410	# 5
SMG1	Hs.460179	TRCN0000037411	# 5
SMG1	Hs.460179	TRCN0000037412	# 5
SMG1	Hs.460179	TRCN0000037413	# 5
PIM3	Hs.530381	TRCN0000037414	# 5
PIM3	Hs.530381	TRCN0000037416	# 5
PIM3	Hs.530381	TRCN0000037417	# 5
ULK3	Hs.513034	TRCN0000037419	# 5
ULK3	Hs.513034	TRCN0000037420	# 5
ULK3	Hs.513034	TRCN0000037421	# 5
ULK3	Hs.513034	TRCN0000037422	# 5
ULK3	Hs.513034	TRCN0000037423	# 5
PRAGMIN	Hs.657673	TRCN0000037424	# 5
PRAGMIN	Hs.657673	TRCN0000037425	# 5
PRAGMIN	Hs.657673	TRCN0000037426	# 5
PRAGMIN	Hs.657673	TRCN0000037427	# 5
PRAGMIN	Hs.657673	TRCN0000037428	# 5
SPEG	Hs.21639	TRCN0000037429	# 5
SPEG	Hs.21639	TRCN0000037430	# 5
SPEG	Hs.21639	TRCN0000037431	# 5
SPEG	Hs.21639	TRCN0000037432	# 5
SPEG	Hs.21639	TRCN0000037433	# 5
C9orf96	Hs.159448	TRCN0000037434	# 5
C9orf96	Hs.159448	TRCN0000037435	# 5
C9orf96	Hs.159448	TRCN0000037436	# 5
C9orf96	Hs.159448	TRCN0000037437	# 5
C9orf96	Hs.159448	TRCN0000037438	# 5

SGK269	Hs.9587	TRCN0000037439	# 5
SGK269	Hs.9587	TRCN0000037440	# 5
SGK269	Hs.9587	TRCN0000037441	# 5
SGK269	Hs.9587	TRCN0000037442	# 5
SGK269	Hs.9587	TRCN0000037443	# 5
MYLK4	Hs.127830	TRCN0000037444	# 5
MYLK4	Hs.127830	TRCN0000037445	# 5
MYLK4	Hs.127830	TRCN0000037446	# 5
MYLK4	Hs.127830	TRCN0000037447	# 5
MYLK4	Hs.127830	TRCN0000037448	# 5
KIAA0999	Hs.167451	TRCN0000037449	# 5
KIAA0999	Hs.167451	TRCN0000037450	# 5
KIAA0999	Hs.167451	TRCN0000037451	# 5
KIAA0999	Hs.167451	TRCN0000037452	# 5
LOC64664	Hs.532676	TRCN0000037455	# 5
TSSK4	Hs.314432	TRCN0000037459	# 5
TSSK4	Hs.314432	TRCN0000037460	# 5
TSSK4	Hs.314432	TRCN0000037461	# 5
TSSK4	Hs.314432	TRCN0000037462	# 5
TSSK4	Hs.314432	TRCN0000037463	# 5
TSSK1B	Hs.701555	TRCN0000037464	# 5
TSSK1B	Hs.701555	TRCN0000037466	# 5
TSSK1B	Hs.701555	TRCN0000037467	# 5
TSSK1B	Hs.701555	TRCN0000037468	# 5
TEX14	Hs.390221	TRCN0000037469	# 5
TEX14	Hs.390221	TRCN0000037470	# 5
TEX14	Hs.390221	TRCN0000037471	# 5
TEX14	Hs.390221	TRCN0000037472	# 5
TTN	Hs.134602	TRCN0000037479	# 5
TTN	Hs.134602	TRCN0000037480	# 5
TTN	Hs.134602	TRCN0000037481	# 5
TTN	Hs.134602	TRCN0000037482	# 5
TTN	Hs.134602	TRCN0000037483	# 5
NRK	Hs.209527	TRCN0000037489	# 5
NRK	Hs.209527	TRCN0000037490	# 5
NRK	Hs.209527	TRCN0000037491	# 5
NRK	Hs.209527	TRCN0000037492	# 5

NRK	Hs.209527	TRCN0000037493	# 5
SIK2	Hs.269128	TRCN0000037494	# 5
SIK2	Hs.269128	TRCN0000037495	# 5
SIK2	Hs.269128	TRCN0000037496	# 5
SIK2	Hs.269128	TRCN0000037497	# 5
SIK2	Hs.269128	TRCN0000037498	# 5
TAF1L	Hs.591086	TRCN0000037499	# 5
TAF1L	Hs.591086	TRCN0000037500	# 5
TAF1L	Hs.591086	TRCN0000037501	# 5
TAF1L	Hs.591086	TRCN0000037503	# 5
RIOK2	Hs.27021	TRCN0000037504	# 5
RIOK2	Hs.27021	TRCN0000037505	# 5
RIOK2	Hs.27021	TRCN0000037506	# 5
RIOK2	Hs.27021	TRCN0000037507	# 5
RIOK2	Hs.27021	TRCN0000037508	# 5
RIPK5	Hs.6874	TRCN0000037509	# 5
RIPK5	Hs.6874	TRCN0000037510	# 5
RIPK5	Hs.6874	TRCN0000037511	# 5
RIPK5	Hs.6874	TRCN0000037512	# 5
RIPK5	Hs.6874	TRCN0000037513	# 5
TNIK	Hs.34024	TRCN0000037514	# 5
TNIK	Hs.34024	TRCN0000037515	# 5
TNIK	Hs.34024	TRCN0000037516	# 5
TNIK	Hs.34024	TRCN0000037517	# 5
TNIK	Hs.34024	TRCN0000037518	# 5
TP53RK	Hs.440263	TRCN0000037519	# 5
TP53RK	Hs.440263	TRCN0000037520	# 5
TP53RK	Hs.440263	TRCN0000037521	# 5
TP53RK	Hs.440263	TRCN0000037522	# 5
TP53RK	Hs.440263	TRCN0000037523	# 5
TAOK1	Hs.631758	TRCN0000037524	# 5
TAOK1	Hs.631758	TRCN0000037525	# 5
TAOK1	Hs.631758	TRCN0000037526	# 5
TAOK1	Hs.631758	TRCN0000037527	# 5
TAOK1	Hs.631758	TRCN0000037528	# 5
SGK493	Hs.408542	TRCN0000037529	# 5
SGK493	Hs.408542	TRCN0000037530	# 5

SGK493	Hs.408542	TRCN0000037531	# 5
SGK493	Hs.408542	TRCN0000037532	# 5
SGK493	Hs.408542	TRCN0000037533	# 5
TTBK1	Hs.485436	TRCN0000037534	# 5
TTBK1	Hs.485436	TRCN0000037535	# 5
TTBK1	Hs.485436	TRCN0000037537	# 5
TTBK1	Hs.485436	TRCN0000037538	# 5
PI4K2B	Hs.191701	TRCN0000037584	# 5
PI4K2B	Hs.191701	TRCN0000037585	# 5
PI4K2B	Hs.191701	TRCN0000037586	# 5
PI4K2B	Hs.191701	TRCN0000037587	# 5
PI4K2B	Hs.191701	TRCN0000037588	# 5
PI4K2A	Hs.25300	TRCN0000037604	# 5
PI4K2A	Hs.25300	TRCN0000037605	# 5
PI4K2A	Hs.25300	TRCN0000037606	# 5
PI4K2A	Hs.25300	TRCN0000037607	# 5
PI4K2A	Hs.25300	TRCN0000037608	# 5
CERK	Hs.200668	TRCN0000037684	# 5
CERK	Hs.200668	TRCN0000037685	# 5
CERK	Hs.200668	TRCN0000037686	# 5
CERK	Hs.200668	TRCN0000037687	# 5
CERK	Hs.200668	TRCN0000037688	# 5
PIK3C3	Hs.464971	TRCN0000037794	# 5
PIK3C3	Hs.464971	TRCN0000037795	# 5
PIK3C3	Hs.464971	TRCN0000037796	# 5
PIK3C3	Hs.464971	TRCN0000037797	# 5
PIK3C3	Hs.464971	TRCN0000037798	# 5
MAST4	Hs.595458	TRCN0000037874	# 5
MAST4	Hs.595458	TRCN0000037875	# 5
MAST4	Hs.595458	TRCN0000037876	# 5
MAST4	Hs.595458	TRCN0000037877	# 5
MAST4	Hs.595458	TRCN0000037878	# 5
SRC	Hs.195659	TRCN0000038150	# 5
SRC	Hs.195659	TRCN0000038151	# 5
SRC	Hs.195659	TRCN0000038152	# 5
SRC	Hs.195659	TRCN0000038153	# 5
ATM	Hs.367437	TRCN0000038654	# 5

ATM	Hs.367437	TRCN0000038655	# 5
ATM	Hs.367437	TRCN0000038656	# 5
ATM	Hs.367437	TRCN0000038657	# 5
ATM	Hs.367437	TRCN0000038658	# 5
MAPK15	Hs.493169	TRCN0000038659	# 5
MAPK15	Hs.493169	TRCN0000038660	# 5
MAPK15	Hs.493169	TRCN0000038663	# 5
CSNK1G2	Hs.651905	TRCN0000038669	# 5
CSNK1G2	Hs.651905	TRCN0000038670	# 5
CSNK1G2	Hs.651905	TRCN0000038671	# 5
CSNK1G2	Hs.651905	TRCN0000038672	# 5
CSNK1G2	Hs.651905	TRCN0000038673	# 5
MTOR	Hs.338207	TRCN0000038674	# 5
MTOR	Hs.338207	TRCN0000038675	# 5
MTOR	Hs.338207	TRCN0000038676	# 5
MTOR	Hs.338207	TRCN0000038677	# 5
MTOR	Hs.338207	TRCN0000038678	# 5
GSK3A	Hs.466828	TRCN0000038679	# 5
GSK3A	Hs.466828	TRCN0000038680	# 5
GSK3A	Hs.466828	TRCN0000038681	# 5
GSK3A	Hs.466828	TRCN0000038682	# 5
GSK3A	Hs.466828	TRCN0000038683	# 5
PIK3CA	Hs.85701	TRCN0000039603	# 5
PIK3CA	Hs.85701	TRCN0000039604	# 5
PIK3CA	Hs.85701	TRCN0000039605	# 5
PIK3CA	Hs.85701	TRCN0000039606	# 5
PIK3CA	Hs.85701	TRCN0000039607	# 5
ATR	Hs.271791	TRCN0000039613	# 5
ATR	Hs.271791	TRCN0000039614	# 5
ATR	Hs.271791	TRCN0000039615	# 5
ATR	Hs.271791	TRCN0000039616	# 5
ATR	Hs.271791	TRCN0000039617	# 5
EGFR	Hs.488293	TRCN0000039633	# 5
EGFR	Hs.488293	TRCN0000039634	# 5
EGFR	Hs.488293	TRCN0000039635	# 5
EGFR	Hs.488293	TRCN0000039636	# 5
EGFR	Hs.488293	TRCN0000039637	# 5

IGF1R	Hs.643120	TRCN0000039674	# 5
IGF1R	Hs.643120	TRCN0000039675	# 5
IGF1R	Hs.643120	TRCN0000039676	# 5
PIK3R2	Hs.371344	TRCN0000039683	# 5
PIK3R2	Hs.371344	TRCN0000039685	# 5
PIK3R2	Hs.371344	TRCN0000039686	# 5
PIK3R2	Hs.371344	TRCN0000039687	# 5
ERBB4	Hs.390729	TRCN0000039689	# 5
ERBB4	Hs.390729	TRCN0000039691	# 5
ERBB4	Hs.390729	TRCN0000039692	# 5
INSR	Hs.465744	TRCN0000039698	# 5
INSR	Hs.465744	TRCN0000039699	# 5
INSR	Hs.465744	TRCN0000039700	# 5
INSR	Hs.465744	TRCN0000039701	# 5
INSR	Hs.465744	TRCN0000039702	# 5
FLT3	Hs.507590	TRCN0000039703	# 5
FLT3	Hs.507590	TRCN0000039705	# 5
FLT3	Hs.507590	TRCN0000039706	# 5
FLT3	Hs.507590	TRCN0000039707	# 5
CDK6	Hs.119882	TRCN0000039743	# 5
CDK6	Hs.119882	TRCN0000039744	# 5
CDK6	Hs.119882	TRCN0000039745	# 5
CDK6	Hs.119882	TRCN0000039746	# 5
CDK6	Hs.119882	TRCN0000039747	# 5
RPS6KA1	Hs.149957	TRCN0000039754	# 5
RPS6KA1	Hs.149957	TRCN0000039755	# 5
RPS6KA1	Hs.149957	TRCN0000039757	# 5
GSK3A	Hs.466828	TRCN0000039763	# 5
GSK3A	Hs.466828	TRCN0000039764	# 5
GSK3A	Hs.466828	TRCN0000039765	# 5
GSK3A	Hs.466828	TRCN0000039766	# 5
GSK3A	Hs.466828	TRCN0000039767	# 5
TGFBR1	Hs.494622	TRCN0000039773	# 5
TGFBR1	Hs.494622	TRCN0000039774	# 5
TGFBR1	Hs.494622	TRCN0000039775	# 5
TGFBR1	Hs.494622	TRCN0000039776	# 5
TGFBR1	Hs.494622	TRCN0000039777	# 5

PDK1	Hs.470633	TRCN0000039778	# 5
PDK1	Hs.470633	TRCN0000039779	# 5
PDK1	Hs.470633	TRCN0000039781	# 5
PDK1	Hs.470633	TRCN0000039782	# 5
MTOR	Hs.338207	TRCN0000039783	# 5
MTOR	Hs.338207	TRCN0000039784	# 5
MTOR	Hs.338207	TRCN0000039785	# 5
MTOR	Hs.338207	TRCN0000039786	# 5
MTOR	Hs.338207	TRCN0000039787	# 5
AKT1	Hs.525622	TRCN0000039793	# 5
AKT1	Hs.525622	TRCN0000039794	# 5
AKT1	Hs.525622	TRCN0000039796	# 5
AKT1	Hs.525622	TRCN0000039797	# 5
CHEK1	Hs.24529	TRCN0000039853	# 5
CHEK1	Hs.24529	TRCN0000039854	# 5
CHEK1	Hs.24529	TRCN0000039855	# 5
CHEK1	Hs.24529	TRCN0000039856	# 5
CHEK1	Hs.24529	TRCN0000039857	# 5
ERBB2	Hs.446352	TRCN0000039878	# 5
ERBB2	Hs.446352	TRCN0000039879	# 5
ERBB2	Hs.446352	TRCN0000039880	# 5
ERBB2	Hs.446352	TRCN0000039881	# 5
AKT3	Hs.498292	TRCN0000039888	# 5
AKT3	Hs.498292	TRCN0000039889	# 5
AKT3	Hs.498292	TRCN0000039890	# 5
AKT3	Hs.498292	TRCN0000039891	# 5
AKT3	Hs.498292	TRCN0000039892	# 5
ABL1	Hs.431048	TRCN0000039898	# 5
ABL1	Hs.431048	TRCN0000039899	# 5
ABL1	Hs.431048	TRCN0000039900	# 5
ABL1	Hs.431048	TRCN0000039901	# 5
ABL1	Hs.431048	TRCN0000039902	# 5
PIK3R1	Hs.132225	TRCN0000039903	# 5
PIK3R1	Hs.132225	TRCN0000039904	# 5
PIK3R1	Hs.132225	TRCN0000039905	# 5
PIK3R1	Hs.132225	TRCN0000039906	# 5
PIK3R1	Hs.132225	TRCN0000039907	# 5

MAP2K4	Hs.514681	TRCN0000039914	# 5
MAP2K4	Hs.514681	TRCN0000039916	# 5
MAP2K4	Hs.514681	TRCN0000039917	# 5
CHEK2	Hs.291363	TRCN0000039944	# 5
CHEK2	Hs.291363	TRCN0000039945	# 5
CHEK2	Hs.291363	TRCN0000039946	# 5
CHEK2	Hs.291363	TRCN0000039947	# 5
ATM	Hs.367437	TRCN0000039948	# 5
ATM	Hs.367437	TRCN0000039949	# 5
ATM	Hs.367437	TRCN0000039950	# 5
ATM	Hs.367437	TRCN0000039951	# 5
ATM	Hs.367437	TRCN0000039952	# 5
CDK2	Hs.19192	TRCN0000039958	# 5
CDK2	Hs.19192	TRCN0000039959	# 5
CDK2	Hs.19192	TRCN0000039960	# 5
CDK2	Hs.19192	TRCN0000039961	# 5
CDK2	Hs.19192	TRCN0000039962	# 5
AKT2	Hs.631535	TRCN0000039968	# 5
AKT2	Hs.631535	TRCN0000039970	# 5
AKT2	Hs.631535	TRCN0000039971	# 5
AKT2	Hs.631535	TRCN0000039972	# 5
PIK3CB	Hs.239818	TRCN0000039978	# 5
PIK3CB	Hs.239818	TRCN0000039979	# 5
PIK3CB	Hs.239818	TRCN0000039981	# 5
PIK3CB	Hs.239818	TRCN0000039982	# 5
GSK3B	Hs.445733	TRCN0000039998	# 5
GSK3B	Hs.445733	TRCN0000039999	# 5
GSK3B	Hs.445733	TRCN0000040000	# 5
GSK3B	Hs.445733	TRCN0000040001	# 5
GSK3B	Hs.445733	TRCN0000040002	# 5
TGFBR2	Hs.82028	TRCN0000040008	# 5
TGFBR2	Hs.82028	TRCN0000040009	# 5
TGFBR2	Hs.82028	TRCN0000040010	# 5
TGFBR2	Hs.82028	TRCN0000040011	# 5
TGFBR2	Hs.82028	TRCN0000040012	# 5
RET	Hs.350321	TRCN0000040025	# 5
RET	Hs.350321	TRCN0000040026	# 5

RET	Hs.350321	TRCN0000040027	# 5
MET	Hs.132966	TRCN0000040043	# 5
MET	Hs.132966	TRCN0000040044	# 5
MET	Hs.132966	TRCN0000040045	# 5
MET	Hs.132966	TRCN0000040046	# 5
MET	Hs.132966	TRCN0000040047	# 5
ERBB3	Hs.118681	TRCN0000040108	# 5
ERBB3	Hs.118681	TRCN0000040109	# 5
ERBB3	Hs.118681	TRCN0000040111	# 5
ERBB3	Hs.118681	TRCN0000040112	# 5
RPS6KA3	Hs.445387	TRCN0000040143	# 5
RPS6KA3	Hs.445387	TRCN0000040144	# 5
RPS6KA3	Hs.445387	TRCN0000040145	# 5
RPS6KA3	Hs.445387	TRCN0000040146	# 5
RPS6KA3	Hs.445387	TRCN0000040147	# 5
BUB1	Hs.469649	TRCN0000040154	# 5
BUB1	Hs.469649	TRCN0000040155	# 5
BUB1	Hs.469649	TRCN0000040156	# 5
BUB1	Hs.469649	TRCN0000040157	# 5
SGK1	Hs.510078	TRCN0000040173	# 5
SGK1	Hs.510078	TRCN0000040174	# 5
SGK1	Hs.510078	TRCN0000040175	# 5
SGK1	Hs.510078	TRCN0000040176	# 5
SGK1	Hs.510078	TRCN0000040177	# 5
ROS1	Hs.1041	TRCN0000045099	# 5
ROS1	Hs.1041	TRCN0000045102	# 5
CIT	Hs.119594	TRCN0000045573	# 5
CIT	Hs.119594	TRCN0000045574	# 5
CIT	Hs.119594	TRCN0000045575	# 5
CIT	Hs.119594	TRCN0000045577	# 5
SRM	Hs.76244	TRCN0000045728	# 5
SRM	Hs.76244	TRCN0000045731	# 5
SRM	Hs.76244	TRCN0000045732	# 5
PIM1	Hs.81170	TRCN0000046794	# 5
PIM1	Hs.81170	TRCN0000046795	# 5
PIM1	Hs.81170	TRCN0000046796	# 5
PIM1	Hs.81170	TRCN0000046797	# 5

ROS1	Hs.1041	TRCN0000047174	# 5
ROS1	Hs.1041	TRCN0000047175	# 5
NLK	Hs.208759	TRCN0000049148	# 5
NLK	Hs.208759	TRCN0000049149	# 5
NLK	Hs.208759	TRCN0000049150	# 5
NLK	Hs.208759	TRCN0000049151	# 5
NLK	Hs.208759	TRCN0000049152	# 5
ATR	Hs.271791	TRCN0000052393	# 5
ATR	Hs.271791	TRCN0000052397	# 5
BMP2K	Hs.146551	TRCN0000052615	# 5
BMP2K	Hs.146551	TRCN0000052616	# 5
PI4KA	Hs.529438	TRCN0000052624	# 5
PI4KA	Hs.529438	TRCN0000052625	# 5
SCYL2	Hs.506481	TRCN0000057848	# 5
SCYL2	Hs.506481	TRCN0000057849	# 5
SCYL2	Hs.506481	TRCN0000057850	# 5
SCYL2	Hs.506481	TRCN0000057851	# 5
SCYL2	Hs.506481	TRCN0000057852	# 5
SCYL2	Hs.506481	TRCN0000057883	# 5
SCYL2	Hs.506481	TRCN0000057884	# 5
SCYL2	Hs.506481	TRCN0000057885	# 5
SCYL2	Hs.506481	TRCN0000057886	# 5
SCYL1	Hs.238839	TRCN0000057943	# 5
SCYL1	Hs.238839	TRCN0000057944	# 5
SCYL1	Hs.238839	TRCN0000057945	# 5
SCYL1	Hs.238839	TRCN0000057946	# 5
SCYL1	Hs.238839	TRCN0000057947	# 5
RAGE	Hs.104119	TRCN0000062659	# 5
RAGE	Hs.104119	TRCN0000062660	# 5
RAGE	Hs.104119	TRCN0000062661	# 5
RAGE	Hs.104119	TRCN0000062662	# 5
ATR	Hs.271791	TRCN0000063218	# 5
ATR	Hs.271791	TRCN0000063219	# 5
ATR	Hs.271791	TRCN0000063220	# 5
ATR	Hs.271791	TRCN0000063221	# 5
CNKSR2	Hs.555917	TRCN0000077893	# 5
CNKSR2	Hs.555917	TRCN0000077894	# 5

CNKS2	Hs.555917	TRCN0000077895	# 5
CNKS2	Hs.555917	TRCN0000077896	# 5
CNKS2	Hs.555917	TRCN0000077897	# 5
FGFR1	Hs.264887	TRCN0000078113	# 5
ULK2	Hs.168762	TRCN0000078495	# 5
ULK2	Hs.168762	TRCN0000078496	# 5
EIF2AK4	Hs.656673	TRCN0000078649	# 5
EIF2AK4	Hs.656673	TRCN0000078651	# 5
EIF2AK4	Hs.656673	TRCN0000078652	# 5
PI4KA	Hs.529438	TRCN0000078688	# 5
PI4KA	Hs.529438	TRCN0000078689	# 5
PI4KA	Hs.529438	TRCN0000078691	# 5
AAK1	Hs.468878	TRCN0000082349	# 5
AAK1	Hs.468878	TRCN0000082350	# 6
AAK1	Hs.468878	TRCN0000082351	# 6
AAK1	Hs.468878	TRCN0000082352	# 6
OBSCN	Hs.656999	TRCN0000082398	# 6
OBSCN	Hs.656999	TRCN0000082400	# 6
OBSCN	Hs.656999	TRCN0000082401	# 6
SMG1	Hs.460179	TRCN0000082411	# 6
C9orf96	Hs.159448	TRCN0000082448	# 6
C9orf96	Hs.159448	TRCN0000082449	# 6
C9orf96	Hs.159448	TRCN0000082450	# 6
C9orf96	Hs.159448	TRCN0000082451	# 6
C9orf96	Hs.159448	TRCN0000082452	# 6
FLT1	Hs.654360	TRCN0000082566	# 6
FLT1	Hs.654360	TRCN0000082567	# 6
CHEK2	Hs.291363	TRCN0000082610	# 6
CHEK2	Hs.291363	TRCN0000082611	# 6
CHEK2	Hs.291363	TRCN0000082612	# 6
PIK3CA	Hs.85701	TRCN0000082624	# 6
PIK3CA	Hs.85701	TRCN0000082626	# 6
PIK3CA	Hs.85701	TRCN0000082627	# 6
ATR	Hs.271791	TRCN0000083903	# 6
ATR	Hs.271791	TRCN0000083905	# 6
ATR	Hs.271791	TRCN0000083906	# 6
ATR	Hs.271791	TRCN0000083907	# 6

ADRBK2	Hs.657494	TRCN0000084008	# 6
PIK3R6	Hs.255809	TRCN0000107180	# 6
PIK3R6	Hs.255809	TRCN0000107181	# 6
PIK3R6	Hs.255809	TRCN0000107182	# 6
PIK3R6	Hs.255809	TRCN0000107183	# 6
PIK3R6	Hs.255809	TRCN0000107184	# 6
ACTR2	Hs.719274	TRCN0000113861	# 6
ACTR2	Hs.719274	TRCN0000113862	# 6
ACTR2	Hs.719274	TRCN0000113863	# 6
ACTR2	Hs.719274	TRCN0000113865	# 6
MAST1	Hs.227489	TRCN0000113931	# 6
MAST1	Hs.227489	TRCN0000113932	# 6
MAST1	Hs.227489	TRCN0000113933	# 6
MAST1	Hs.227489	TRCN0000113934	# 6
MAST1	Hs.227489	TRCN0000113935	# 6
PLK1	Hs.592049	TRCN0000117448	# 6
PLK1	Hs.592049	TRCN0000117449	# 6
PLK1	Hs.592049	TRCN0000117450	# 6
PLK1	Hs.592049	TRCN0000117451	# 6
GRK5	Hs.524625	TRCN0000118898	# 6
YES1	Hs.194148	TRCN0000121062	# 6
YES1	Hs.194148	TRCN0000121063	# 6
YES1	Hs.194148	TRCN0000121064	# 6
YES1	Hs.194148	TRCN0000121065	# 6
YES1	Hs.194148	TRCN0000121066	# 6
EGFR	Hs.488293	TRCN0000121067	# 6
EGFR	Hs.488293	TRCN0000121068	# 6
EGFR	Hs.488293	TRCN0000121069	# 6
EGFR	Hs.488293	TRCN0000121070	# 6
EGFR	Hs.488293	TRCN0000121071	# 6
PLK1	Hs.592049	TRCN0000121072	# 6
PLK1	Hs.592049	TRCN0000121073	# 6
PLK1	Hs.592049	TRCN0000121074	# 6
PLK1	Hs.592049	TRCN0000121075	# 6
PLK4	Hs.172052	TRCN0000121077	# 6
PLK4	Hs.172052	TRCN0000121078	# 6
PLK4	Hs.172052	TRCN0000121079	# 6

PLK4	Hs.172052	TRCN0000121080	# 6
PLK4	Hs.172052	TRCN0000121081	# 6
DDR1	Hs.631988	TRCN0000121082	# 6
DDR1	Hs.631988	TRCN0000121083	# 6
DDR1	Hs.631988	TRCN0000121084	# 6
DDR1	Hs.631988	TRCN0000121085	# 6
DDR1	Hs.631988	TRCN0000121086	# 6
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MET	Hs.132966	TRCN0000121089	# 6
MET	Hs.132966	TRCN0000121090	# 6
MET	Hs.132966	TRCN0000121091	# 6
ROCK1	Hs.306307	TRCN0000121092	# 6
ROCK1	Hs.306307	TRCN0000121093	# 6
ROCK1	Hs.306307	TRCN0000121094	# 6
ROCK1	Hs.306307	TRCN0000121095	# 6
ROCK1	Hs.306307	TRCN0000121096	# 6
ABL1	Hs.431048	TRCN0000121097	# 6
ABL1	Hs.431048	TRCN0000121098	# 6
ABL1	Hs.431048	TRCN0000121099	# 6
ABL1	Hs.431048	TRCN0000121100	# 6
ABL1	Hs.431048	TRCN0000121101	# 6
FGFR1	Hs.264887	TRCN0000121102	# 6
FGFR1	Hs.264887	TRCN0000121103	# 6
FGFR1	Hs.264887	TRCN0000121104	# 6
FGFR1	Hs.264887	TRCN0000121105	# 6
FGFR1	Hs.264887	TRCN0000121106	# 6
TXK	Hs.479669	TRCN0000121107	# 6
TXK	Hs.479669	TRCN0000121108	# 6
TXK	Hs.479669	TRCN0000121109	# 6
TXK	Hs.479669	TRCN0000121110	# 6
TXK	Hs.479669	TRCN0000121111	# 6
TIE1	Hs.78824	TRCN0000121112	# 6
TIE1	Hs.78824	TRCN0000121113	# 6
TIE1	Hs.78824	TRCN0000121114	# 6
TIE1	Hs.78824	TRCN0000121115	# 6
TIE1	Hs.78824	TRCN0000121116	# 6

DDR2	Hs.593833	TRCN0000121117	# 6
DDR2	Hs.593833	TRCN0000121118	# 6
DDR2	Hs.593833	TRCN0000121119	# 6
DDR2	Hs.593833	TRCN0000121120	# 6
INSR	Hs.465744	TRCN0000121123	# 6
INSR	Hs.465744	TRCN0000121124	# 6
INSR	Hs.465744	TRCN0000121125	# 6
INSR	Hs.465744	TRCN0000121126	# 6
PTK2	Hs.395482	TRCN0000121127	# 6
PTK2	Hs.395482	TRCN0000121128	# 6
PTK2	Hs.395482	TRCN0000121129	# 6
PTK2	Hs.395482	TRCN0000121130	# 6
PTK2	Hs.395482	TRCN0000121131	# 6
IGF1R	Hs.643120	TRCN0000121132	# 6
IGF1R	Hs.643120	TRCN0000121133	# 6
IGF1R	Hs.643120	TRCN0000121134	# 6
IGF1R	Hs.643120	TRCN0000121135	# 6
IGF1R	Hs.643120	TRCN0000121136	# 6
IRAK1	Hs.522819	TRCN0000121137	# 6
IRAK1	Hs.522819	TRCN0000121138	# 6
IRAK1	Hs.522819	TRCN0000121139	# 6
IRAK1	Hs.522819	TRCN0000121140	# 6
IRAK1	Hs.522819	TRCN0000121141	# 6
JAK1	Hs.207538	TRCN0000121142	# 6
JAK1	Hs.207538	TRCN0000121143	# 6
JAK1	Hs.207538	TRCN0000121144	# 6
JAK1	Hs.207538	TRCN0000121145	# 6
JAK1	Hs.207538	TRCN0000121146	# 6
MST1R	Hs.517973	TRCN0000121147	# 6
MST1R	Hs.517973	TRCN0000121148	# 6
MST1R	Hs.517973	TRCN0000121149	# 6
MST1R	Hs.517973	TRCN0000121150	# 6
MST1R	Hs.517973	TRCN0000121151	# 6
MST1R	Hs.517973	TRCN0000121159	# 6
MST1R	Hs.517973	TRCN0000121160	# 6
MST1R	Hs.517973	TRCN0000121161	# 6
DDR1	Hs.631988	TRCN0000121162	# 6

DDR1	Hs.631988	TRCN0000121163	# 6
DDR1	Hs.631988	TRCN0000121165	# 6
DDR1	Hs.631988	TRCN0000121166	# 6
ABL1	Hs.431048	TRCN0000121168	# 6
ABL1	Hs.431048	TRCN0000121169	# 6
ABL1	Hs.431048	TRCN0000121170	# 6
DDR2	Hs.593833	TRCN0000121172	# 6
DDR2	Hs.593833	TRCN0000121173	# 6
DDR2	Hs.593833	TRCN0000121174	# 6
DDR2	Hs.593833	TRCN0000121175	# 6
DDR2	Hs.593833	TRCN0000121176	# 6
TXK	Hs.479669	TRCN0000121177	# 6
TXK	Hs.479669	TRCN0000121178	# 6
TXK	Hs.479669	TRCN0000121179	# 6
TXK	Hs.479669	TRCN0000121180	# 6
TXK	Hs.479669	TRCN0000121181	# 6
FGFR1	Hs.264887	TRCN0000121182	# 6
FGFR1	Hs.264887	TRCN0000121183	# 6
FGFR1	Hs.264887	TRCN0000121185	# 6
FGFR1	Hs.264887	TRCN0000121186	# 6
TIE1	Hs.78824	TRCN0000121187	# 6
TIE1	Hs.78824	TRCN0000121188	# 6
TIE1	Hs.78824	TRCN0000121189	# 6
TIE1	Hs.78824	TRCN0000121191	# 6
IGF1R	Hs.643120	TRCN0000121192	# 6
IGF1R	Hs.643120	TRCN0000121193	# 6
IGF1R	Hs.643120	TRCN0000121195	# 6
IGF1R	Hs.643120	TRCN0000121196	# 6
PLK4	Hs.172052	TRCN0000121198	# 6
PLK4	Hs.172052	TRCN0000121199	# 6
PLK4	Hs.172052	TRCN0000121200	# 6
PLK4	Hs.172052	TRCN0000121201	# 6
EGFR	Hs.488293	TRCN0000121202	# 6
EGFR	Hs.488293	TRCN0000121203	# 6
EGFR	Hs.488293	TRCN0000121204	# 6
EGFR	Hs.488293	TRCN0000121205	# 6
EGFR	Hs.488293	TRCN0000121206	# 6

PTK2	Hs.395482	TRCN0000121207	# 6
PTK2	Hs.395482	TRCN0000121209	# 6
PTK2	Hs.395482	TRCN0000121211	# 6
JAK1	Hs.207538	TRCN0000121212	# 6
JAK1	Hs.207538	TRCN0000121213	# 6
JAK1	Hs.207538	TRCN0000121214	# 6
JAK1	Hs.207538	TRCN0000121215	# 6
JAK1	Hs.207538	TRCN0000121216	# 6
INSR	Hs.465744	TRCN0000121217	# 6
INSR	Hs.465744	TRCN0000121218	# 6
INSR	Hs.465744	TRCN0000121219	# 6
INSR	Hs.465744	TRCN0000121220	# 6
INSR	Hs.465744	TRCN0000121221	# 6
PLK1	Hs.592049	TRCN0000121222	# 6
PLK1	Hs.592049	TRCN0000121223	# 6
PLK1	Hs.592049	TRCN0000121224	# 6
PLK1	Hs.592049	TRCN0000121226	# 6
YES1	Hs.194148	TRCN0000121227	# 6
YES1	Hs.194148	TRCN0000121228	# 6
YES1	Hs.194148	TRCN0000121229	# 6
YES1	Hs.194148	TRCN0000121230	# 6
YES1	Hs.194148	TRCN0000121231	# 6
MET	Hs.132966	TRCN0000121232	# 6
MET	Hs.132966	TRCN0000121233	# 6
MET	Hs.132966	TRCN0000121234	# 6
MET	Hs.132966	TRCN0000121235	# 6
IRAK1	Hs.522819	TRCN0000121237	# 6
IRAK1	Hs.522819	TRCN0000121238	# 6
IRAK1	Hs.522819	TRCN0000121239	# 6
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YES1	Hs.194148	TRCN0000121242	# 6
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YES1	Hs.194148	TRCN0000121244	# 6
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MET	Hs.132966	TRCN0000121251	# 6
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PLK4	Hs.172052	TRCN0000121258	# 6
PLK4	Hs.172052	TRCN0000121259	# 6
PLK4	Hs.172052	TRCN0000121260	# 6
PLK4	Hs.172052	TRCN0000121261	# 6
DDR2	Hs.593833	TRCN0000121262	# 6
DDR2	Hs.593833	TRCN0000121263	# 6
DDR2	Hs.593833	TRCN0000121264	# 6
DDR2	Hs.593833	TRCN0000121266	# 6
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TIE1	Hs.78824	TRCN0000121268	# 6
TIE1	Hs.78824	TRCN0000121269	# 6
TIE1	Hs.78824	TRCN0000121270	# 6
TIE1	Hs.78824	TRCN0000121271	# 6
JAK1	Hs.207538	TRCN0000121272	# 6
JAK1	Hs.207538	TRCN0000121274	# 6
JAK1	Hs.207538	TRCN0000121275	# 6
JAK1	Hs.207538	TRCN0000121276	# 6
ABL1	Hs.431048	TRCN0000121277	# 6
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INSR	Hs.465744	TRCN0000121283	# 6
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TXK	Hs.479669	TRCN0000121291	# 6
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FGFR1	Hs.264887	TRCN0000121307	# 6
FGFR1	Hs.264887	TRCN0000121308	# 6
FGFR1	Hs.264887	TRCN0000121309	# 6
FGFR1	Hs.264887	TRCN0000121310	# 6
FGFR1	Hs.264887	TRCN0000121311	# 6
ROCK1	Hs.306307	TRCN0000121312	# 6
ROCK1	Hs.306307	TRCN0000121314	# 6
ROCK1	Hs.306307	TRCN0000121315	# 6
ROCK1	Hs.306307	TRCN0000121316	# 6
PTK2	Hs.395482	TRCN0000121317	# 6
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PTK2	Hs.395482	TRCN0000121321	# 6
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EGFR	Hs.488293	TRCN0000121327	# 6

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EGFR	Hs.488293	TRCN0000121329	# 6
EGFR	Hs.488293	TRCN0000121330	# 6
EGFR	Hs.488293	TRCN0000121331	# 6
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MET	Hs.132966	TRCN0000134872	# 6
MET	Hs.132966	TRCN0000137418	# 6
CHEK1	Hs.24529	TRCN0000138395	# 6
AAK1	Hs.468878	TRCN0000127601	# 6
SGK2	Hs.300863	TRCN0000121788	# 6
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WEE1	Hs.249441	TRCN0000139739	# 6
MKNK1	Hs.371594	TRCN0000143831	# 6
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ERN2	Hs.592041	TRCN0000138998	# 6
ABL2	Hs.159472	TRCN0000140719	# 6
ITK	Hs.558348	TRCN0000130981	# 6
MAPK10	Hs.125503	TRCN0000149064	# 6
AGK	Hs.699361	TRCN0000153828	# 6
AGK	Hs.699361	TRCN0000153242	# 6
AGK	Hs.699361	TRCN0000152281	# 6
AGK	Hs.699361	TRCN0000153540	# 6
AGK	Hs.699361	TRCN0000152111	# 6
NEK1	Hs.481181	TRCN0000155836	# 6
MAP3K3	Hs.29282	TRCN0000155402	# 6
CLK2	Hs.73986	TRCN0000155095	# 6
ACVRL1	Hs.591026	TRCN0000010519	# 6
CDK4	Hs.95577	TRCN0000010520	# 6
FGFR3	Hs.1420	TRCN0000010521	# 6
GUCY2D	Hs.592109	TRCN0000010522	# 6

INSR	Hs.465744	TRCN0000010523	# 6
CDK3	Hs.706766	TRCN0000010525	# 6
IRAK2	Hs.449207	TRCN0000010527	# 6
DDR1	Hs.631988	TRCN0000010528	# 6
FES	Hs.7636	TRCN0000010529	# 6
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FGFR4	Hs.165950	TRCN0000010530	# 6
GSK3B	Hs.445733	TRCN0000010551	# 6
LIMK1	Hs.647035	TRCN0000010555	# 6
LIMK1	Hs.647035	TRCN0000010553	# 6
MAPK13	Hs.178695	TRCN0000010556	# 6
DYRK3	Hs.164267	TRCN0000010532	# 6
AURKA	Hs.250822	TRCN0000010533	# 6
MAP4K3	Hs.655750	TRCN0000010534	# 6
DGKZ	Hs.502461	TRCN0000010535	# 6
DGKZ	Hs.502461	TRCN0000010536	# 6
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RPS6KB2	Hs.534345	TRCN0000010541	# 6
MAP3K14	Hs.404183	TRCN0000010542	# 6
PTK2B	Hs.491322	TRCN0000010544	# 6
PTK2B	Hs.491322	TRCN0000010545	# 6
FLT3	Hs.507590	TRCN0000010546	# 6
AURKB	Hs.442658	TRCN0000010547	# 6
STK17B	Hs.88297	TRCN0000010548	# 6
BUB1	Hs.469649	TRCN0000010549	# 6
CSNK1G3	Hs.129206	TRCN0000010550	# 6
STK17A	Hs.709489	TRCN0000010569	# 6
MAP2K7	Hs.531754	TRCN0000010587	# 6
MAP2K7	Hs.531754	TRCN0000010586	# 6
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GRK5	Hs.524625	TRCN0000010557	# 6
MAP3K4	Hs.390428	TRCN0000010558	# 6
CDC42BP1	Hs.654634	TRCN0000010559	# 6
PLK2	Hs.398157	TRCN0000010560	# 6
TRIO	Hs.130031	TRCN0000010561	# 6
PIK3R4	Hs.149032	TRCN0000010562	# 6

VRK3	Hs.443330	TRCN0000010563	# 6
NEK8	Hs.448468	TRCN0000010564	# 6
MYLK2	Hs.86092	TRCN0000010566	# 6
MYLK	Hs.477375	TRCN0000010568	# 6
MYLK	Hs.477375	TRCN0000010567	# 6
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MAPK8	Hs.138211	TRCN0000010581	# 6
GRK6	Hs.235116	TRCN0000010619	# 6
GRK6	Hs.235116	TRCN0000010618	# 6
MARK3	Hs.35828	TRCN0000010641	# 6
MAP3K10	Hs.466743	TRCN0000010674	# 6
PRKACA	Hs.631630	TRCN0000010620	# 6
MAPK6	Hs.411847	TRCN0000010642	# 6
GRK1	Hs.103501	TRCN0000010624	# 6
NPR2	Hs.78518	TRCN0000010603	# 6
EPHB4	Hs.437008	TRCN0000010651	# 6
EPHB6	Hs.380089	TRCN0000010676	# 6
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ROR2	Hs.98255	TRCN0000010625	# 6
PRKX	Hs.390788	TRCN0000010652	# 6
OXSRI	Hs.475970	TRCN0000010643	# 6
ABL1	Hs.431048	TRCN0000010626	# 6
ADRBK2	Hs.657494	TRCN0000010678	# 6
CSF1R	Hs.586219	TRCN0000010645	# 6
CSF1R	Hs.586219	TRCN0000010644	# 6
MOS	Hs.533432	TRCN0000010649	# 6
MOS	Hs.533432	TRCN0000010648	# 6
MUSK	Hs.521653	TRCN0000010683	# 6
TYRO3	Hs.381282	TRCN0000010684	# 6
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LMTK2	Hs.444179	TRCN0000010632	# 6
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MAST2	Hs.319481	TRCN0000010650	# 6
IRAK4	Hs.138499	TRCN0000010679	# 6
CSNK1G1	Hs.646508	TRCN0000010607	# 6

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CDK10	Hs.699177	TRCN0000010653	# 6
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DYRK1A	Hs.719269	TRCN0000010613	# 6
DYRK1A	Hs.719269	TRCN0000010614	# 6
CSNK1D	Hs.631725	TRCN0000010640	# 6
SGK2	Hs.300863	TRCN0000010682	# 6
CSNK2A1	Hs.644056	TRCN0000010672	# 6
CSNK2A1	Hs.644056	TRCN0000010673	# 6
JAK1	Hs.207538	TRCN0000010760	# 6
MAP3K3	Hs.29282	TRCN0000010692	# 6
PRKCB	Hs.460355	TRCN0000010761	# 6
PRKCG	Hs.631564	TRCN0000010693	# 6
AURKC	Hs.98338	TRCN0000010694	# 6
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GRK7	Hs.680654	TRCN0000010696	# 6
TSSK4	Hs.314432	TRCN0000010698	# 6
ANKK1	Hs.448473	TRCN0000010691	# 6
DGKQ	Hs.584858	TRCN0000010995	# 6
CSNK1A1	Hs.712555	TRCN0000010990	# 6
PDK1	Hs.470633	TRCN0000011007	# 6
MAPK3	Hs.861	TRCN0000010997	# 6
MAPK3	Hs.861	TRCN0000010998	# 6
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PKMYT1	Hs.77783	TRCN0000011003	# 6
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EPHA7	Hs.73962	TRCN0000011019	# 6
EPHB3	Hs.2913	TRCN0000011020	# 6
DGKI	Hs.242947	TRCN0000010994	# 6
PLK1	Hs.592049	TRCN0000011006	# 6

MINK1	Hs.443417	TRCN0000011005	# 6
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RPS6KA2	Hs.719131	TRCN0000011010	# 6
SRPK3	Hs.104865	TRCN0000011067	# 6
SRPK3	Hs.104865	TRCN0000011066	# 6
PASK	Hs.397891	TRCN0000011065	# 6
MAP2K2	Hs.465627	TRCN0000011062	# 6
MGC4210	Hs.25845	TRCN0000011068	# 6
MGC4210	Hs.25845	TRCN0000011069	# 6
STK32C	Hs.469002	TRCN0000011064	# 6
RPS6KA4	Hs.105584	TRCN0000021516	# 6
MAST1	Hs.227489	TRCN0000021544	# 6
TRPM7	Hs.512894	TRCN0000021560	# 6
ALPK3	Hs.459183	TRCN0000021526	# 6
EPHA10	Hs.129435	TRCN0000021388	# 6
ADCK5	Hs.283374	TRCN0000021479	# 6
EPHA6	Hs.653244	TRCN0000021415	# 6
CDC42BP	Hs.293590	TRCN0000021470	# 6
AATK	Hs.514575	TRCN0000021438	# 6
PRKACG	Hs.158029	TRCN0000022358	# 6
PIM3	Hs.530381	TRCN0000037418	# 6
PIM3	Hs.530381	TRCN0000037415	# 6
KIAA0999	Hs.167451	TRCN0000037453	# 6
TEX14	Hs.390221	TRCN0000037473	# 6
TSSK1B	Hs.701555	TRCN0000037465	# 6
MAPK15	Hs.493169	TRCN0000038662	# 6
MAPK15	Hs.493169	TRCN0000038661	# 6
TAF1L	Hs.591086	TRCN0000037502	# 6
SBK1	Hs.97837	TRCN0000037395	# 6
RET	Hs.350321	TRCN0000040024	# 6
AKT2	Hs.631535	TRCN0000039969	# 6
AKT2	Hs.631535	TRCN0000174056	# 6
ERBB3	Hs.118681	TRCN0000040110	# 6
MAP2K4	Hs.514681	TRCN0000039915	# 6
FLT3	Hs.507590	TRCN0000039704	# 6
ERBB2	Hs.446352	TRCN0000039882	# 6
AKT1	Hs.525622	TRCN0000039795	# 6

ERBB4	Hs.390729	TRCN0000039690	# 6
SRM	Hs.76244	TRCN0000045729	# 6
SRM	Hs.76244	TRCN0000045730	# 6
PI4KA	Hs.529438	TRCN0000052627	# 6
PIK3CD	Hs.518451	TRCN0000054258	# 6
PIK3CD	Hs.518451	TRCN0000054262	# 6
SCYL2	Hs.506481	TRCN0000057887	# 6
CDC42BP	Hs.35433	TRCN0000072628	# 6
ABL2	Hs.159472	TRCN0000073848	# 6
ATR	Hs.271791	TRCN0000083904	# 6
ABL1	Hs.431048	TRCN0000010289	# 6
AKT2	Hs.631535	TRCN0000009819	# 6
AKT2	Hs.631535	TRCN0000009820	# 6
AKT3	Hs.498292	TRCN0000010181	# 6
AKT3	Hs.498292	TRCN0000010292	# 6
ATM	Hs.367437	TRCN0000010299	# 6
ATR	Hs.271791	TRCN0000010300	# 6
ATR	Hs.271791	TRCN0000010301	# 6
ATR	Hs.271791	TRCN0000010302	# 6
BUB1	Hs.469649	TRCN0000010307	# 6
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CHEK1	Hs.24529	TRCN0000009826	# 6
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CHEK1	Hs.24529	TRCN0000009828	# 6
CHEK2	Hs.291363	TRCN0000010312	# 6
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CHEK2	Hs.291363	TRCN0000010314	# 6
EGFR	Hs.488293	TRCN0000010329	# 6
GSK3A	Hs.466828	TRCN0000010339	# 6
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GSK3B	Hs.445733	TRCN0000039564	# 6
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ERBB2	Hs.446352	TRCN0000010341	# 6
ERBB2	Hs.446352	TRCN0000010342	# 6
ERBB2	Hs.446352	TRCN0000010343	# 6
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ERBB4	Hs.390729	TRCN0000009836	# 6
ERBB4	Hs.390729	TRCN0000018328	# 6
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IGF1R	Hs.643120	TRCN0000018331	# 6
IGF1R	Hs.643120	TRCN0000010361	# 6
MET	Hs.132966	TRCN0000009850	# 6
MET	Hs.132966	TRCN0000009851	# 6
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PIK3R2	Hs.371344	TRCN0000018339	# 6
PIK3R2	Hs.371344	TRCN0000010402	# 6
PIK3CA	Hs.85701	TRCN0000010406	# 6
PIK3CA	Hs.85701	TRCN0000010407	# 6
PIK3CB	Hs.239818	TRCN0000009859	# 6
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PDK1	Hs.470633	TRCN0000010413	# 6
PDK1	Hs.470633	TRCN0000010414	# 6
RET	Hs.350321	TRCN0000010423	# 6
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RPS6KA1	Hs.149957	TRCN0000010426	# 6
RPS6KA1	Hs.149957	TRCN0000010427	# 6
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CDK6	Hs.119882	TRCN0000009877	# 6
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CHEK1	Hs.24529	TRCN0000009942	# 6
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DGKG	Hs.683449:	TRCN0000009950	# 7
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HCK	Hs.655210	TRCN0000009967	# 7
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MAPK13	Hs.178695	TRCN0000009981	# 7
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TEC	Hs.479670	TRCN0000009992	# 7
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TXK	Hs.479669	TRCN0000009997	# 7
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CSK	Hs.77793	TRCN0000009996	# 7
CSK	Hs.77793	TRCN0000010003	# 7
CSK	Hs.77793	TRCN0000010007	# 7
CSK	Hs.77793	TRCN0000010008	# 7
CSK	Hs.77793	TRCN0000010009	# 7
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MAP3K8	Hs.432453	TRCN0000010011	# 7
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MAP3K8	Hs.432453	TRCN0000010013	# 7
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YES1	Hs.194148	TRCN0000010015	# 7
YES1	Hs.194148	TRCN0000010019	# 7
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VRK3	Hs.443330	TRCN0000010234	# 7
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RET	Hs.350321	TRCN0000010238	# 7
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RET	Hs.350321	TRCN0000010252	# 7
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CAMKV	Hs.145156	TRCN0000010254	# 7
CAMKV	Hs.145156	TRCN0000010255	# 7
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SGK2	Hs.300863	TRCN0000010273	# 7
SGK2	Hs.300863	TRCN0000010274	# 7
SGK2	Hs.300863	TRCN0000010282	# 7
CAMK2A	Hs.716391	TRCN0000010283	# 7

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CLK4	Hs.406557	TRCN0000001351	# 7
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DGKH	Hs.659437	TRCN0000001360	# 7
PRKACA	Hs.631630	TRCN0000001370	# 7
MAPK4	Hs.433728	TRCN0000001377	# 7
EIF2AK1	Hs.719136	TRCN0000001379	# 7
RPS6KA1	Hs.149957	TRCN0000001386	# 7
ERBB4	Hs.390729	TRCN0000001411	# 7
PRKD3	Hs.660757	TRCN0000001413	# 7
DDR2	Hs.593833	TRCN0000001417	# 7
PDGFRA	Hs.74615	TRCN0000001425	# 7
TESK2	Hs.591499	TRCN0000001436	# 7
NRBP1	Hs.515876	TRCN0000001438	# 7
TAOK2	Hs.291623	TRCN0000001443	# 7
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MAP2K5	Hs.114198	TRCN0000001469	# 7
PDK1	Hs.470633	TRCN0000001478	# 7
PDK1	Hs.470633	TRCN0000001479	# 7
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ROR2	Hs.98255	TRCN0000001493	# 7
RPS6KA5	Hs.510225	TRCN0000001495	# 7
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ABL1	Hs.431048	TRCN0000001501	# 7
PRKG2	Hs.570833	TRCN0000001508	# 7

TAOK3	Hs.644420	TRCN0000001525	# 7
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MARK3	Hs.35828	TRCN0000001567	# 7
MAPK6	Hs.411847	TRCN0000001571	# 7
TXK	Hs.479669	TRCN0000001578	# 7
EPHA6	Hs.653244	TRCN0000001767	# 7
MAK	Hs.446125	TRCN0000001788	# 7
PBK	Hs.104741	TRCN0000001809	# 7
AMHR2	Hs.659889	TRCN0000001956	# 7
NEK11	Hs.657336	TRCN0000001962	# 7
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MAPK15	Hs.493169	TRCN0000002212	# 7
MAPK15	Hs.493169	TRCN0000002213	# 7
MATK	Hs.631845	TRCN0000002219	# 7
FASTK	Hs.647094	TRCN0000006320	# 7
RIPK2	Hs.103755	TRCN0000006347	# 7
NPR1	Hs.490330	TRCN0000007325	# 7
ALPK3	Hs.459183	TRCN0000021524	# 7
TRPM7	Hs.512894	TRCN0000021562	# 7
TRPM7	Hs.512894	TRCN0000021563	# 7
PNCK	Hs.436667	TRCN0000021571	# 7
PNCK	Hs.436667	TRCN0000021572	# 7
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TRPM6	Hs.272225	TRCN0000021586	# 7
CLK2	Hs.73986	TRCN0000021590	# 7
CLK2	Hs.73986	TRCN0000021592	# 7
CDC42BP	Hs.35433	TRCN0000022979	# 7
PIK3R5	Hs.278901	TRCN0000033272	# 7
PIK3CD	Hs.518451	TRCN0000033275	# 7
TNNI3K	Hs.480085	TRCN0000035807	# 7
SPHK1	Hs.68061	TRCN0000036968	# 7
IGF1R	Hs.643120	TRCN0000039677	# 7
PIK3R2	Hs.371344	TRCN0000039684	# 7
PIM1	Hs.81170	TRCN0000046793	# 7
PAK3	Hs.656789	TRCN0000047593	# 7
PAK3	Hs.656789	TRCN0000047594	# 7

PAK3	Hs.656789	TRCN0000047595	# 7
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PAK3	Hs.656789	TRCN0000047597	# 7
KALRN	Hs.8004	TRCN0000048208	# 7
KALRN	Hs.8004	TRCN0000048209	# 7
KALRN	Hs.8004	TRCN0000048210	# 7
KALRN	Hs.8004	TRCN0000048212	# 7
ATR	Hs.271791	TRCN0000052394	# 7
ATR	Hs.271791	TRCN0000052395	# 7
ATR	Hs.271791	TRCN0000052396	# 7
PI4KA	Hs.529438	TRCN0000052623	# 7
LIMK2	Hs.474596	TRCN0000052680	# 7
PIK3CD	Hs.518451	TRCN0000054260	# 7
TTBK2	Hs.659846	TRCN0000062387	# 7
RAGE	Hs.104119	TRCN0000062658	# 7
ATR	Hs.271791	TRCN0000063222	# 7
LATS1	Hs.716697	TRCN0000073773	# 7
CAMK1D	Hs.659517	TRCN0000074123	# 7
PI4KA	Hs.529438	TRCN0000078690	# 7
PI4KA	Hs.529438	TRCN0000078692	# 7
AAK1	Hs.468878	TRCN0000082348	# 7
DDR2	Hs.593833	TRCN0000121121	# 7

colsums total reads		6986728	6890019	7306969	7204529	
tag		PLX	PLX replicate	Untreated	Untreated_replicate	
TRCN0000021477	ALPK1	144	113	848		723
TRCN0000009939	BTK	107	128	780		691
TRCN0000038671	CSNK1G2	326	433	2335		1750
TRCN0000009953	DGKG	76	98	513		667
TRCN0000000651	DYRK2	123	40	475		473
TRCN0000121206	EGFR	29	41	310		455
TRCN0000039633	EGFR	98	78	779		606
TRCN0000121068	EGFR	66	182	807		646
TRCN0000039881	ERBB2	163	97	634		795
TRCN0000001786	MAK	93	183	903		674
TRCN0000001471	NEK3	826	910	4855		5464
TRCN0000001314	NPR2	63	79	449		595
TRCN0000006244	PCTK2	62	70	621		383
TRCN0000037587	PI4K2B	84	126	912		1128
TRCN0000010407	PIK3CA	96	78	556		499
TRCN0000033287	PIK3R1	563	360	4211		4142
TRCN0000002004	PRKACB	18	70	331		344
TRCN0000003116	PRKCB	48	47	447		325
TRCN0000001066	RAF1	728	808	4345		3962
TRCN0000007149	SCYL2	84	13	319		312
TRCN0000001622	STK4	89	75	540		495
TRCN0000001602	TIE1	75	74	513		761

Relative abundance ratio
PLX/UT

sequence

0.171025053	GCCCAGGTGAAGGAACATTTA
0.167238063	GCGGAAGGGTGATGAATATTT
0.194688133	CGCCTAGGAAAGAATCTCTAT
0.154196265	GGCCAACAGCGCAGATACTAA
0.179170225	GCAGGGTAGAAGCGGTATTAA
0.095675	GCCAAGCCAAATGGCATCTTT
0.1329003	GCTGAGAATGTGGAATACCTA
0.179210448	GCCACAAAGCAGTGAATTTAT
0.189780194	CAGTGCCAATATCCAGGAGTT
0.183625364	GATCCACTTAGCACCTCTCAA
0.175914511	GCAGTCCCATAGAACAGAAAT
0.14220807	GCCTTTCTCCACAACAGCATT
0.137776453	GCCATGAAACATGTGTACTTT
0.107719313	GCTGCAATTGATAATGGTCTA
0.172414295	AATGAAAGCTCACTCTGGATT
0.115383151	CCTCAATGTCACACTAGCCTA
0.136876438	GCCAACTGACTTAACAACATT
0.128819981	CTATCCCAAGTCTATGTCCAA
0.19349512	CGGAGATGTTGCAGTAAAGAT
0.159948199	GCCACCAACTACTATGACCAA
0.165654177	AGTTGAGTGATAGCTGGGAAA
0.12213051	CAGCACTCACACCACTAACAT